RV5000 SERIES USER MANUAL

Firmware Version 2.3.0.34

Recovision Technology Co., Ltd.

2014/03/28

Installation Notes:

- Please be advised of the following tips before using your NVR:
- Keep all liquids away from the NVR.
- Place the NVR in a well-ventilated environment.
- Ensure NVR is running within the allowed humidity and operating temperature.
- It will lead to shorting when dust on the circuit board of NVR gets damp; please dedust regularly with banister brush regarding the circuit board, connector, chassis and chassis fan.
- Improper replacement of the battery may result in hazard of explosion. Direct replacement conducted by users is prohibited. Replace with the same or equivalent type only.

Note

- The equipments mainly mentioned in this manual are RV5000 Series NVRs, including RV5004, RV5008, RV5009 and RV5016.

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1. Product Introduction

1.1 Introduction

RV5000 Series are positioned at management and storage application of HD video data, and own multi-disc management systems, front end HD device management system, HD video analysis system and high-capacity system for video. It adopts the technology of high flow capacity data network transmitting&transmission, with multi-channel video decoding, to achieve functions like intelligent management, safe storage, HD decoding etc.

1.2 Product Key Functions

Basic Information

- RV5000 Series are NVRs, can work with IP camera, IP dome and DVS; can connect with third party IP cameras.
- Each channel supports dual stream up to 1080P/720P/UXGA/VGA resolution.
- Each channel supports timing and event compression parameters, can configure sub stream compression parameters at LAN.

Monitoring

- Supports HDMI video output, can live view and play back separately.
- For HD HDMI display, maximum to 1920*1080p resolution.
- Supports 1/4/8/8_1/9 screen live view, channel sequence is adjustable.
- Supports live view fast menu operating.
- Supports live view group switch, manual switch and automatic patrol, the interval of automatic sequence can be adjusted.
- Supports motion detection, video loss alert.
- Supports various PTZ protocols, PTZ preset, auto patrol and patrol pattern.
- Supports central zoom in by clicking the mouse at arbitrary area.

HDD Management

- RV5000 Series can support 2 SATA HDD.
- Supports S.M.A.R.T technology.

Recording/Snapshoot and Playback

- Support holiday's time.
- Support recycle and non-recycle recording mode.
- Support multiple recoding types, including timing, alarm, motion detection, motion or alarm, motion and alarm, etc.
- Support 12 recording time periods with separate recording types.
- Support pre-record and post-record time for motion detection or snapshot, alarm recording or snapshot, motion and alarm recording, motion or alarm recording. And

supports pre-record for manual and timing.

- Supports local recording/snapshot.
- Supports digital zoom function at arbitrary area in playback.
- Supports video data playback.
- Supports pause, fast play, slow play, skip forward, and skip backward when playback, locating in progress bar by dragging the mouse.
- Supports multi channels (up to 8 channels) playback.
- Supports snapshot manually.

Backup

- Supports USB port backup.
- Supports FAT32 format backup
- Supports backup device maintenance and management.

Alarm & Exception

- Supports video loss alarm, motion detection alarm.
- Supports various alarm response such as audible warning, send email, camera motion detecting, on/off relay

Other Functions •

- Supports multi-level user management, administrator can create multiple users with access rights.
- Supports manual triggering and clearing of alarms.
- Supports operation of configured information import/export.

Network:

- RV5000Series supports 100M/1000M adaptive network interface,
- Supports IPv4 protocol
- Supports TCP/IP protocols, PPPoE, DHCP, DNS, DDNS, NTP, and SMTP, etc.
- Supports unicast and multicast, support TCP, UDP, and RTP for unicast.
- Supports remote search, playback and download of video files, support breakpoint resume.
- Supports remote acquiring and configuring of parameters, support remote import and export of device parameters.
- Supports remote acquiring of device status, system log and alarm status.
- Supports remote button operation.
- Supports remote operate system maintenance by format of hard disk, upgrade, and reboot, etc.
- Supports upload alarm and exceptions to remote host.
- Supports remote manual start or stop of recording.
- Supports remote manual start or stop of alarm output.
- Supports remote BMP image capturing.
- Supports remote PTZ control
- Buit-in WEB Server

2. Hardware

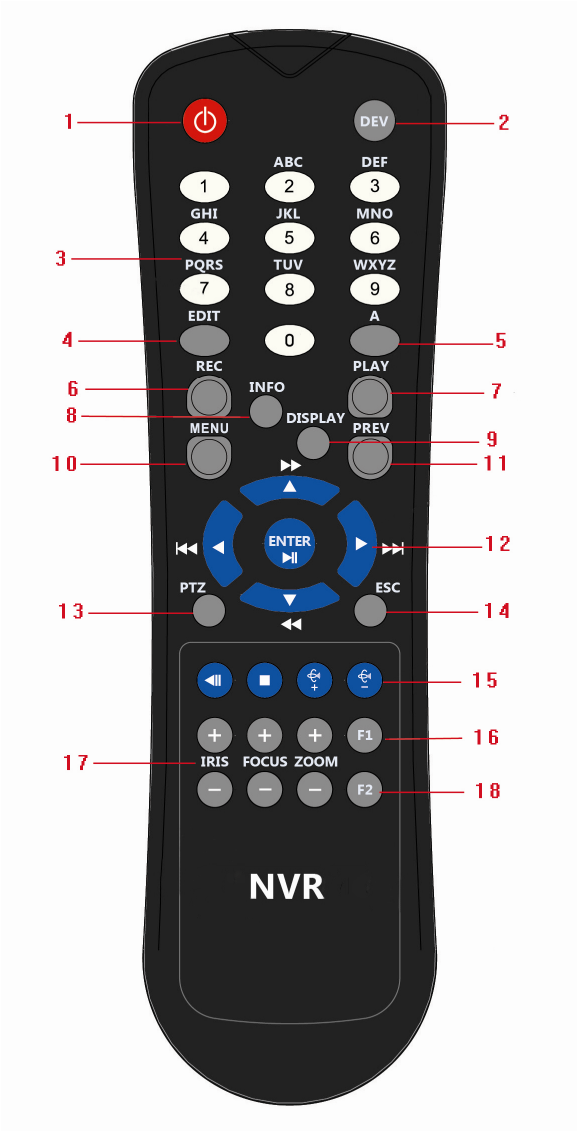
2.1 Panel Buttons and Lights Instructions

NO.	Item	Description
1	POWER	Powers NVR on/off.
2	USB Ports	USB ports for additional devices such as USB mouse, USB flash drive and USB HDD.
3	IR Receiver	Receiver for IR signal.

2.2 Using a USB Mouse

Item	Click	Description
Left Button	Single- click	Live view: select the channel and show the live view fast menu interface. Menu: select and confirm.
	Double-click	Switch between single screen to multi-screen when in live view mode and playback mode.
	Click and drag	(1) Control rotation direction in PTZ mode. (2) Set the target area in tamper-proof, motion detection and privacy mask alarm settings. (3) Drag the digital zoom area. (4) Drag the channel and the time scroll bar.
Right Button	Single-click	Live view: shows pop-up menu. Menu: escape and go to previous menu.
Scroll-wheel	Scroll up	Scroll up the page.
	Scroll down	Scroll down the page.

2.3 IR Remote Controller



F-2.3

NO	Name	Description
1	POWER	Power on/off the NVR
2	DEV	Enables/disables remote control
3	ABC/123	(1)Alphanumeric buttons are used to switch the corresponding channel in live view or PTZ Control mode. (2)Alphanumeric buttons are used to input numbers and characters in edit mode.
4	EDIT	(1)Used to enter the edit state. (2)Delete the character in front of the cursor. (3) Open up the IRIS of the camera when in PTZ state.
5	A	(1)Switch the input methods including figure, letters and symbols. (2) Auto scan when in PTZ control.
6	REC	(1)The REC/SHOT button is used to enter recording configuration interface. (2)When controlling a PTZ, press the REC/SHOT Button to invoke preset positions. (3)Open and close sound system when playback.
7	PLAY	(1)Enter the playback interface. (2)Auto scan when in PTZ control.
8	INFO	Zoom control when in PTZ control.
9	DISPLAY	(1)Switch between main and spot output. (2)To zoom the camera in PTZ mode.
10	MENU	(1)Enter the main menu interface. (2)Display/cover playback toolbar when in playback state. (3)Open/close the sound of front panel by pressing and holding more than 3 seconds.
11	PREV	(1)Used to switch between single screen and multi screen mode. (2)Adjust the focus in PTZ mode.
12	DIRECTION/ ENTER	(1)Move the active selection in a menu, select menu items setting. (2)Up/down button stands for single frame fast forward/playback, left/right button stands for speed up/slow down the video. (3)Switch live view channel or screen in live view mode. (4)Move the PTZ when in PTZ control.
13	PTZ	(1)Confirm selection in menu modes. (2)Switch to tick checkbox and ON/OFF. (3)In playback mode, can be used to play or pause the video. (4)In cruise mode, press to pause/restart the cruise.
14	ESC	Same as ESC button on front panel
15	RESERVED	Reserve the settings
16	F1	(1)Select all items on the list. (2)Control light status when in PTZ control. (3)Switch to playback or sequence play in playback state
17	PTZ CONTROL	To adjust the iris, focus and zoom of a PTZ camera.
18	F2	The F2 button is used to switch menu attribute page.

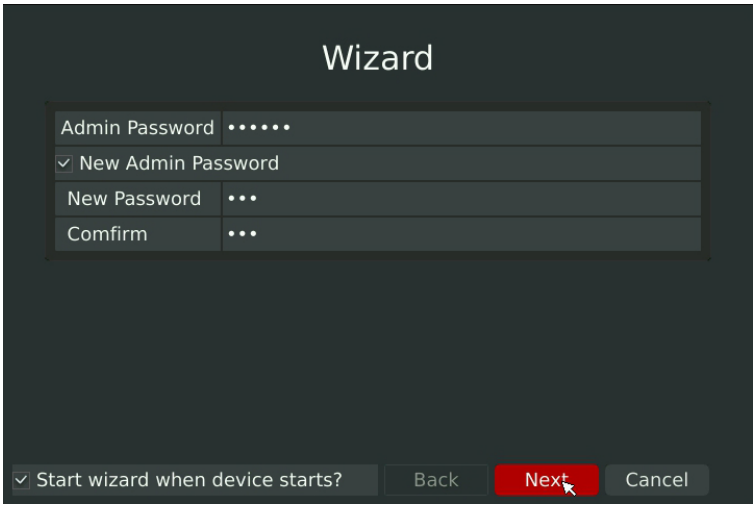
3. Local Operation

3.1 Wizard Setting

By default, the Setup Wizard will start once the NVR has loaded. The Setup Wizard will guide you complete some important settings to make sure the device function well. You can choose if you will enable wizard when device starts.

Please complete the configuration as following:

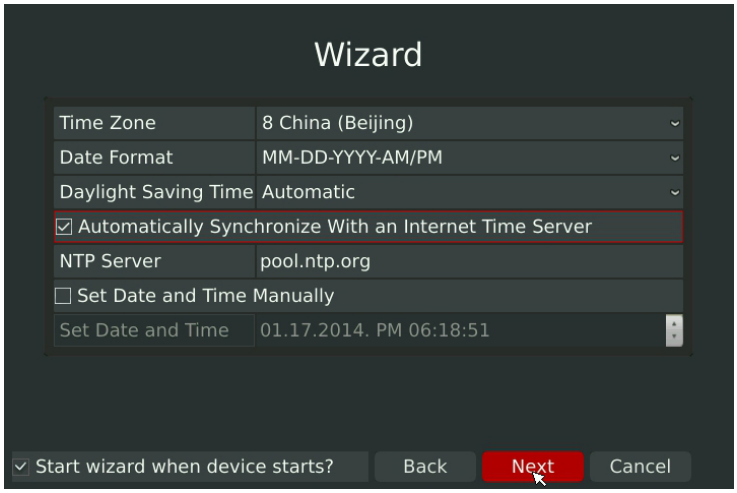
Step1. Input the admin password Admin password (The default password is 123456)
If you want to modify the admin password, input the new password.



F-3.1.1

Step2. Date and time setting

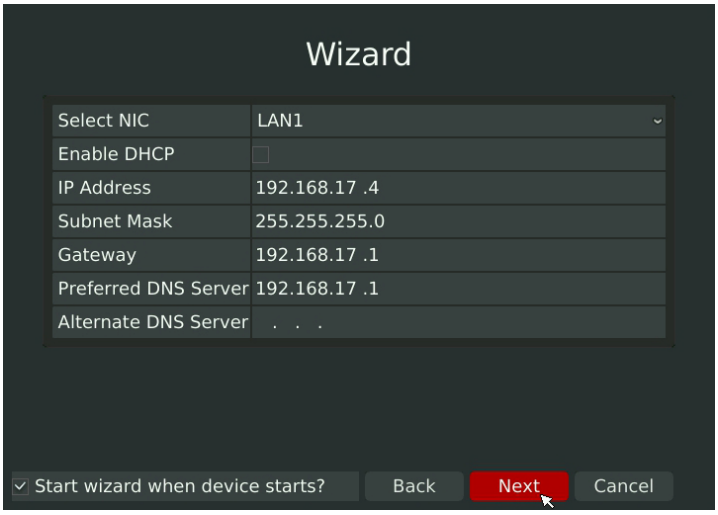
Select the Time Zone and Date Format or you can set date and time manually.



F-3.1.2

Step3. Network setting

Input the IP Address, Subnet Mask, Gate Way and Preferred DNS Server.



F-3.1.3

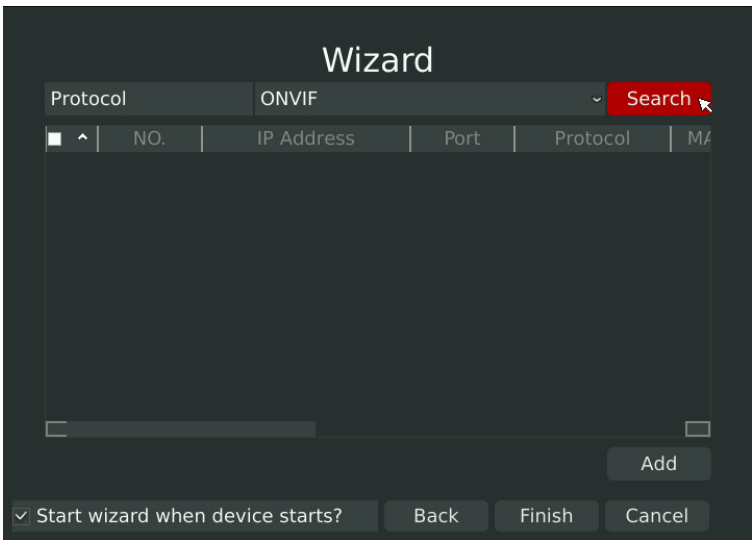
Step4. HDD setting

Check the HDD condition. Format the HDD if it's used for the first time.

F-3.1.4

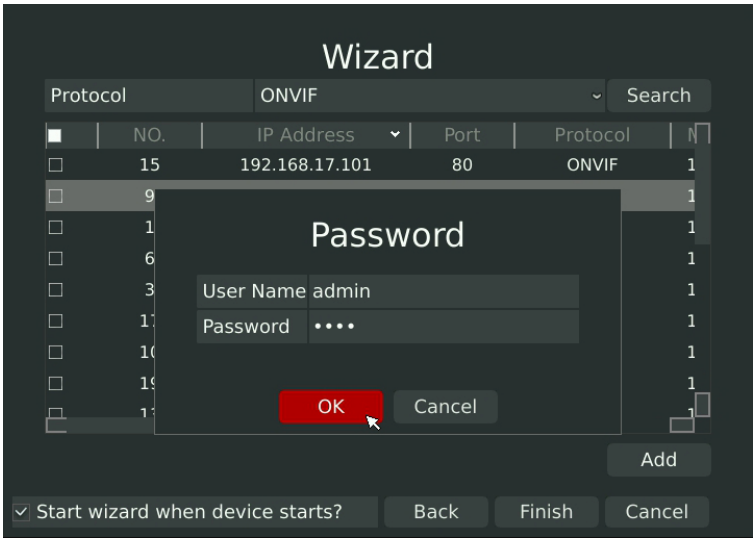
Step5. Camera setting

Choose a protocol and click search.



F-3.1.5

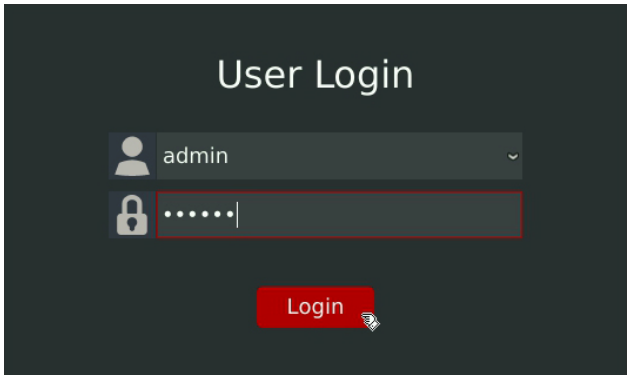
Double click a camera and input the password to add a camera. You can bulk adding the IP cameras if they are with same password.



F-3.1.6

Step6. Login

Input the username and password. (The default password is 123456)



F-3.1.7

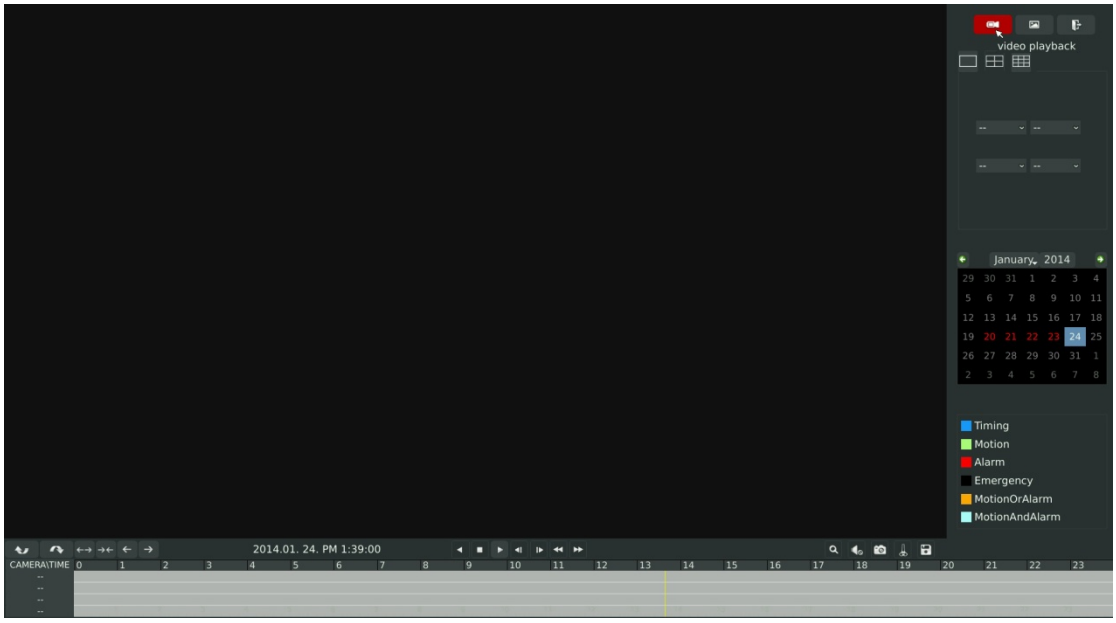
3.2 Playback

To play and backup the recorded files in specified time period.

3.2.1 Video Playback

It can support playback according to recorded time. Play recorded files in specified time period; synchronous playback of multi channels is supported.

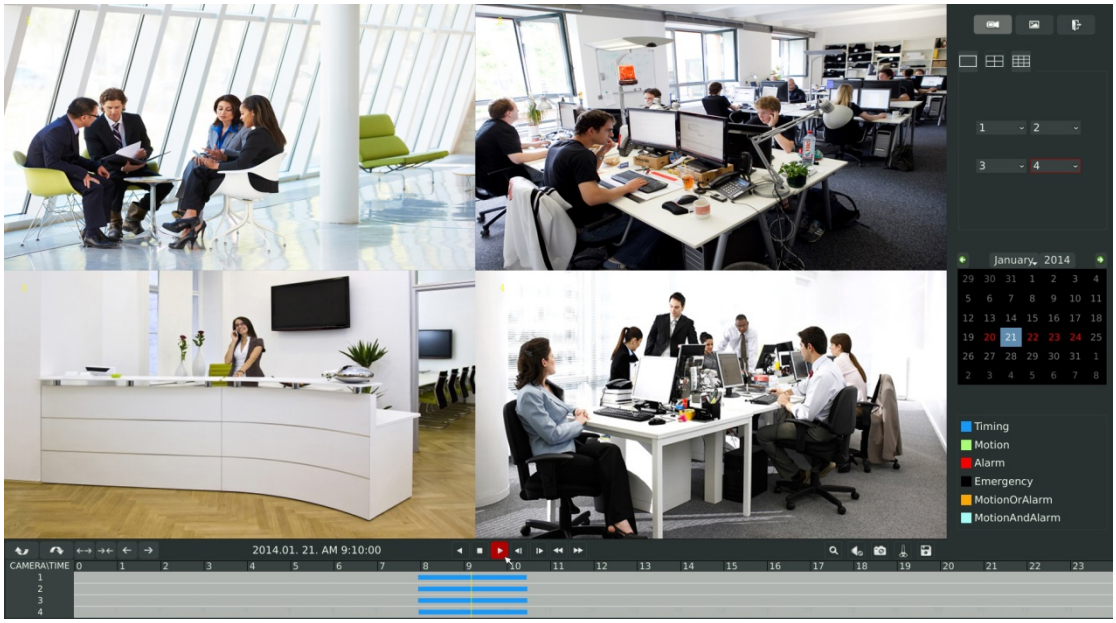
Step1. Enter Video Playback Interface shown in F-3.2.1 by clicking Main menu à Playback •



F-3.2.1

Step2. Select a desired channel and date

Select playback layout and channel. Click the date in red when there are recorded files of the selected channels, the record type with recording data will be show as below, and then click to playback.

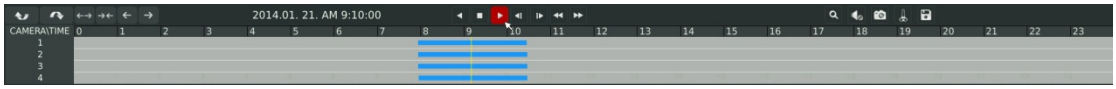


F-3.2.2

Note:

1. **The day in red has recording files; please select the date in red to playback.**
2. **16 channels can be selected to playback synchronously.**

Video Playback Tool Bar Description

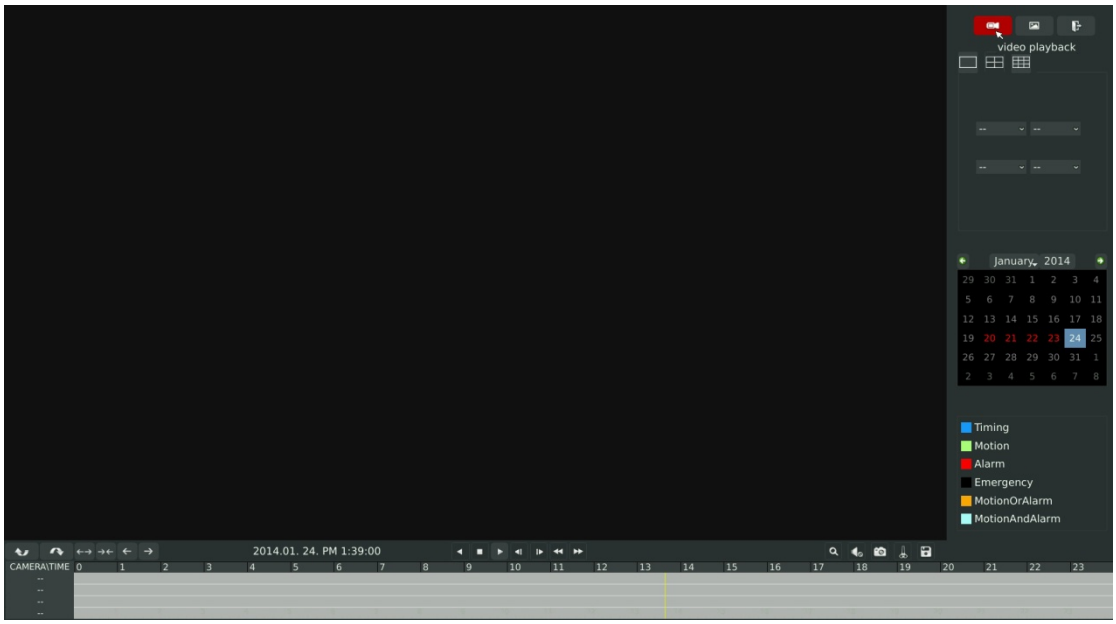


Button	Description	Button	Description	Button	Description	Button	Description
	Previous 4 Cams		Next 4 Cams		Timeline Zoom Out		Timeline Zoom In
	Timeline Forward		Timeline Backward	2014.01. 04. AM 11:43:00	Playback Position	2 3	Timeline
	Rewind		Stop		Play		Pause
	Reverse Step		Forward Step		Fast Backward		Fast Forward
	Zoom In		Audio On		Audio Off		Snapshot
	Timeline Cutting		Timeline Cut Off		Backup		

3.2.1.1 Video Files Backup

Regular recorded files can be backed up by various devices, such as USB flash drives (USB flash disk, USB HDDs, USB writer), CD/DVD writer and eSATA, etc.

Satep1.Enter video playback interface by clicking Main menu • Playback •

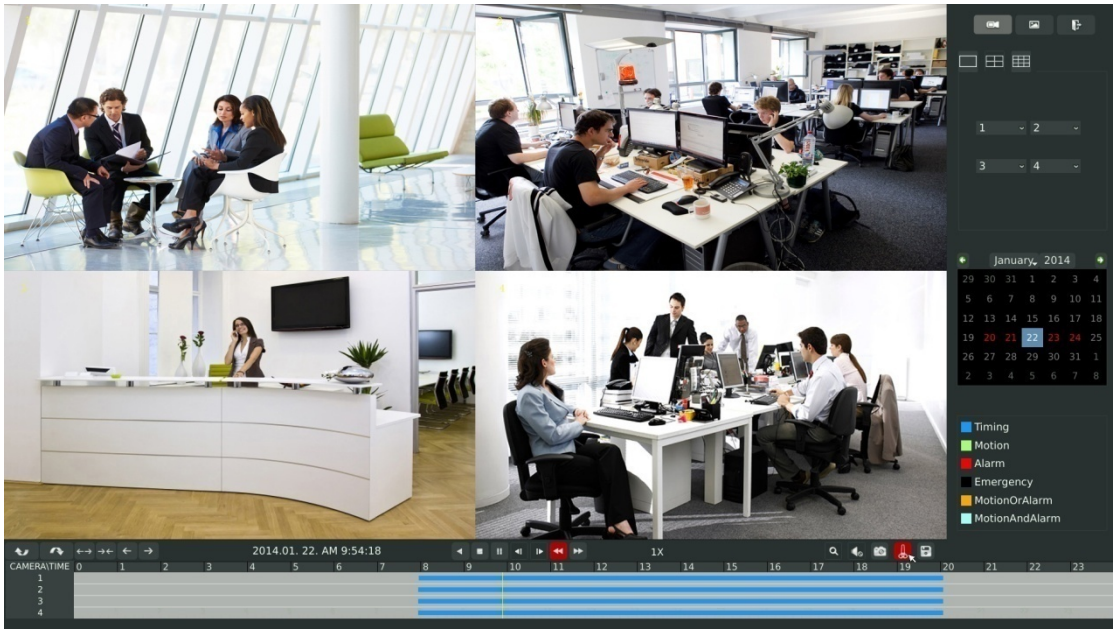


F-3.2.3

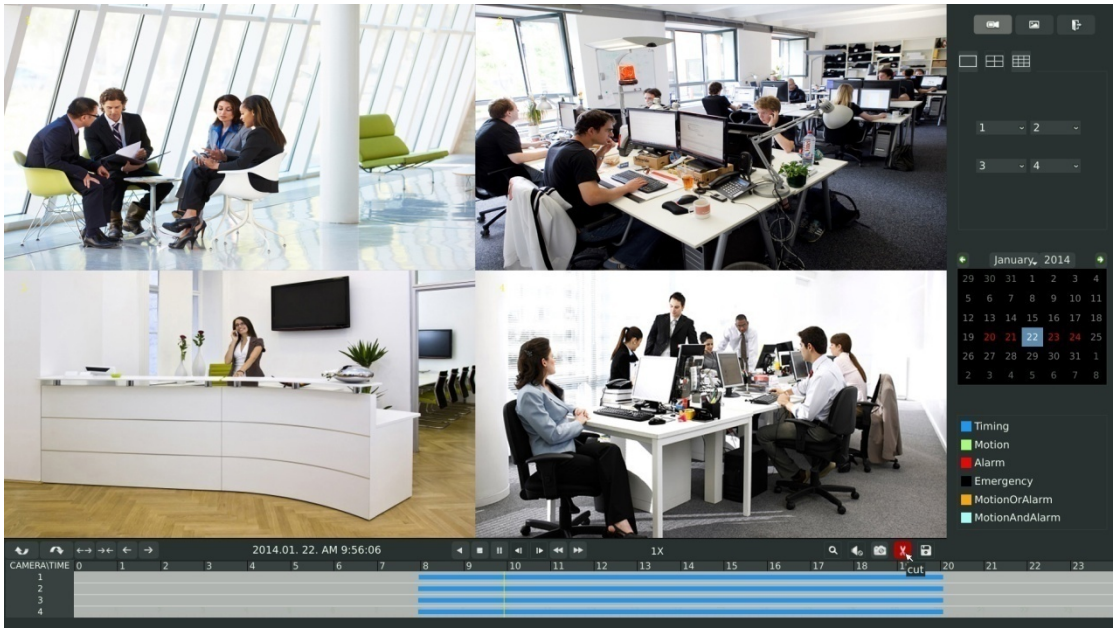
Step2.Select Recorded files for Backup

Select the channel and date you want to backup, click , then select the start time at time line and click

F-3.2.4

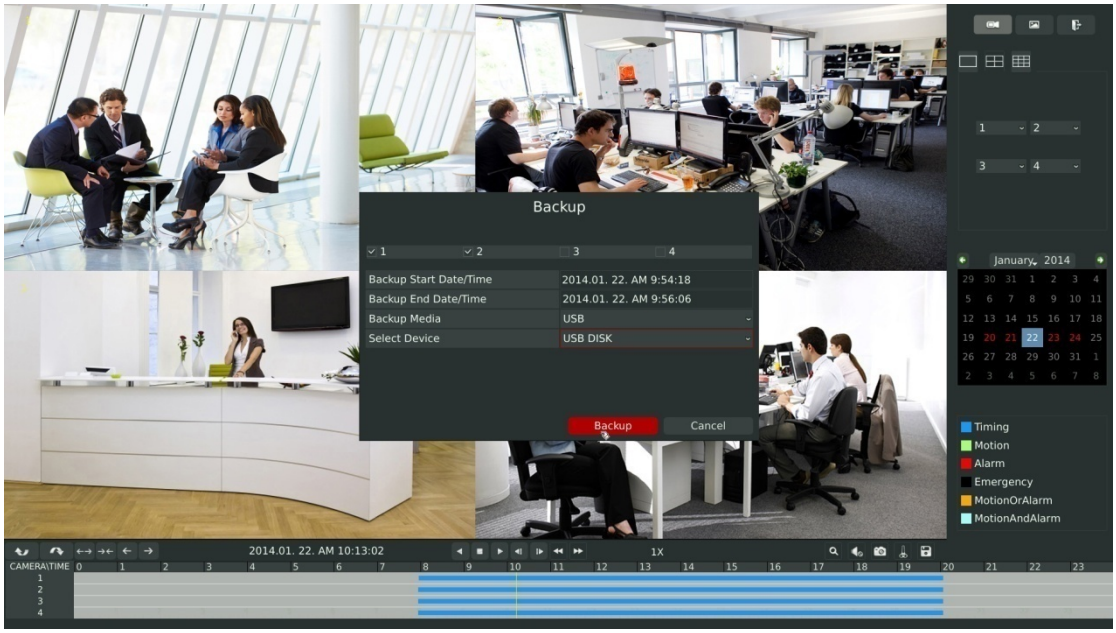


Select the end time at time line and click



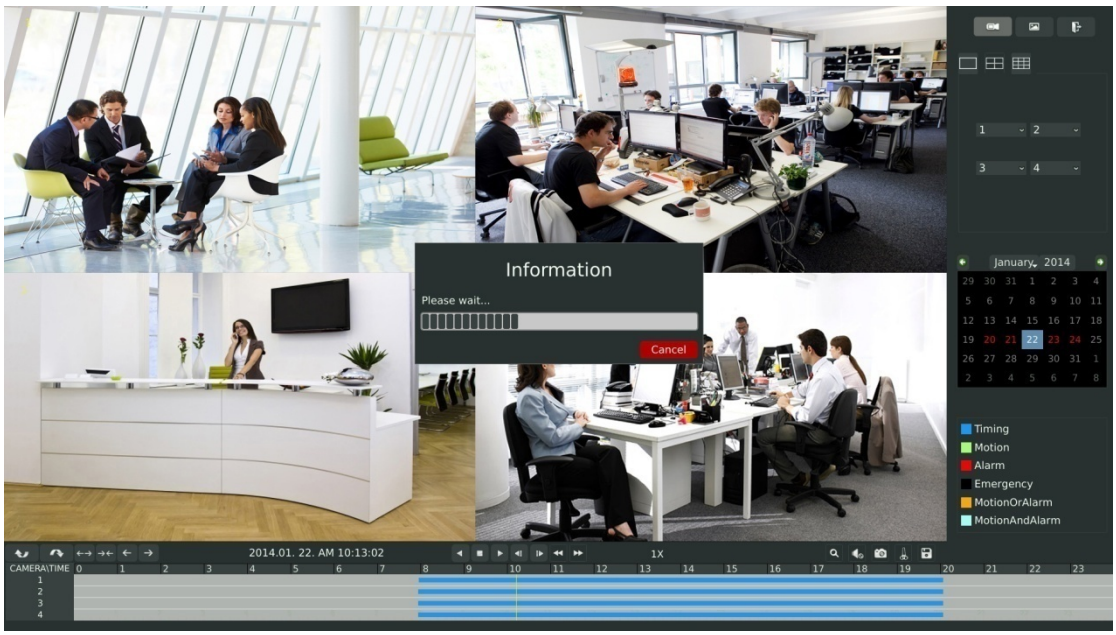
F-3.2.5

Step3.Click enters to backup interface, select Backup media and click [Backup].



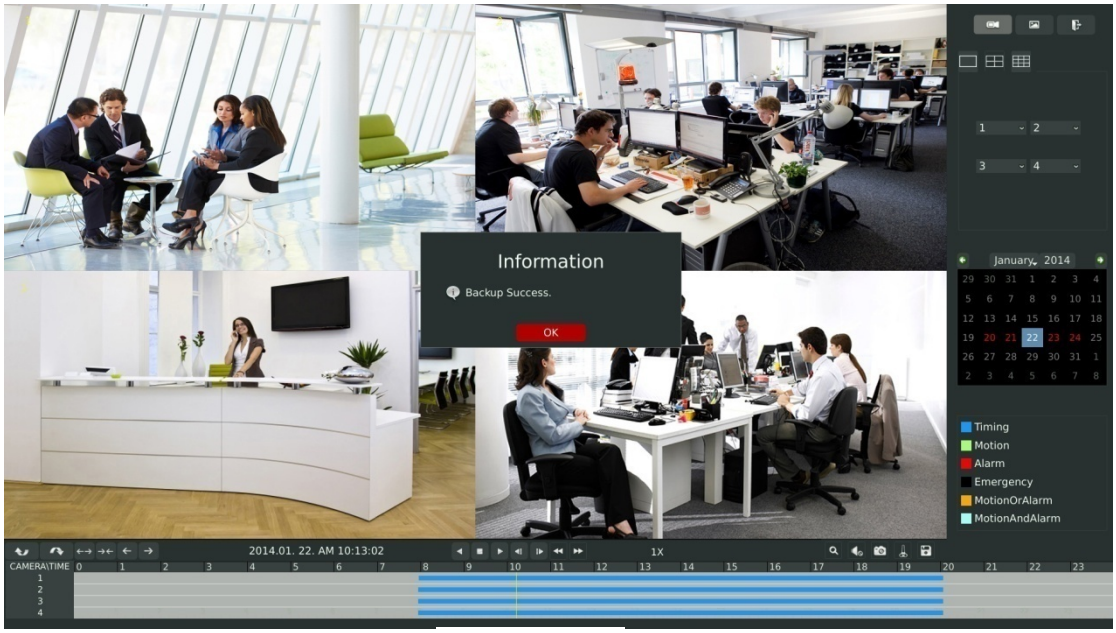
F-3.2.6

Step4. The pop-up window will prompt: Please wait…



F-3.2.7

Step5. When all backup files have been exported, ‘Backup Success’ will be prompted.


Information
Backup Success.
OK
January 2014
Timing
Motion
Alarm
Emergency
MotionOrAlarm
MotionAndAlarm
2014.01. 22. AM 10:13:02
1X
CAMERA\TIME

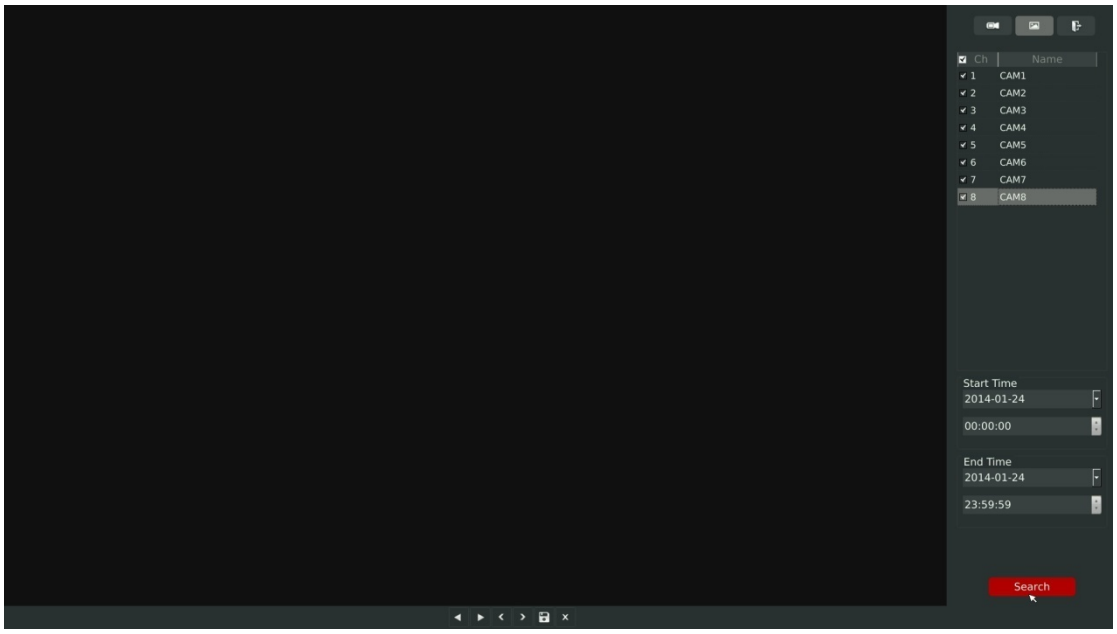
F-3.2.8

3.2.2 Picture Playback

Search and look for the snapshoot files saved in HDD.

Step1.Enter Picture Playback Interface by clicking Main menu à Playback •

Select a desired channel, start time and end time, click [Search]



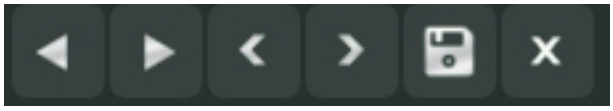
F-3.2.9

Step2. Enter Picture Info List, Look up the Pictures.

Click to play the desired pictures. Or click to auto play the picture.

F-3.2.10

Picture Playback Tool Bar Description



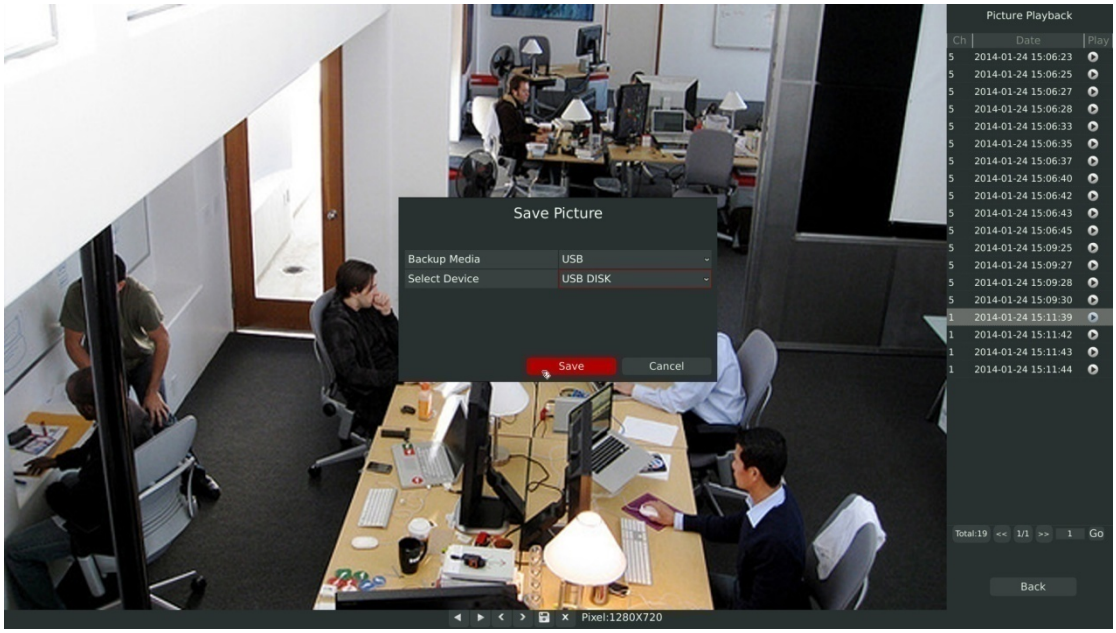
Button	Description	Button	Description	Button	Description	Button	Description
	Backward Play		Play		Previous Picture		Next Picture
	Backup pictures		Close				

3.2.2.1 Picture Files Backup

Step1: Select pictures you want to backup in picture playback interface.

F-3.2.11

Step2: Select backup media and click to save picture.



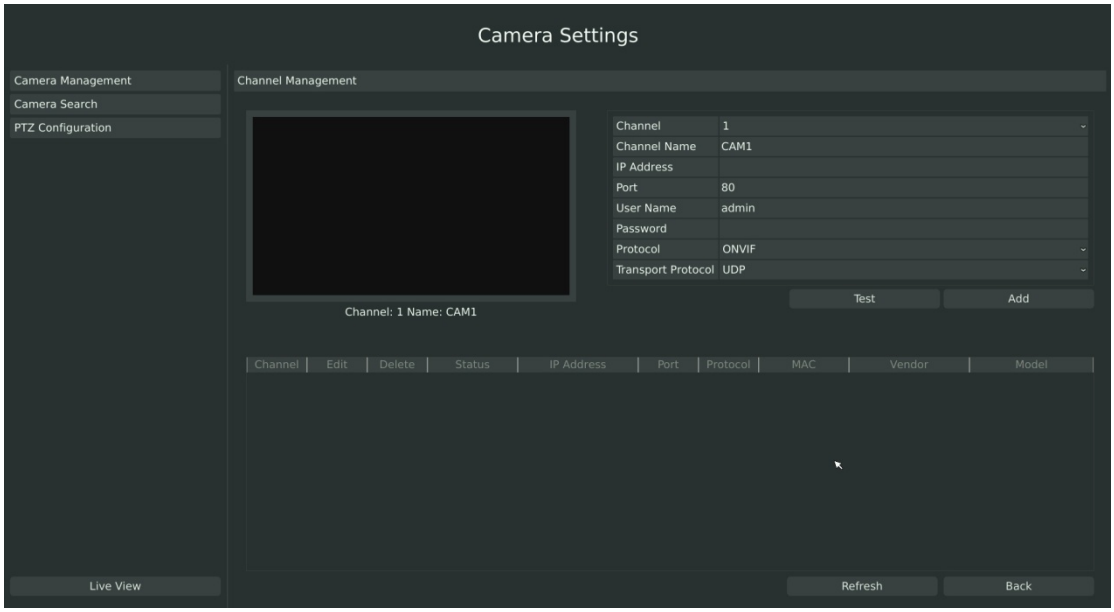
F-3.2.12

3.3 Camera Settings

Before configuration, please ensure that the IP device is connected to the same network as your NVR and that the network setting for your NVR is properly setup.

3.3.1 Camera Management

Step1.Enter camera management interface by clicking main menu à Camera à Camera Management enter camera management interface.

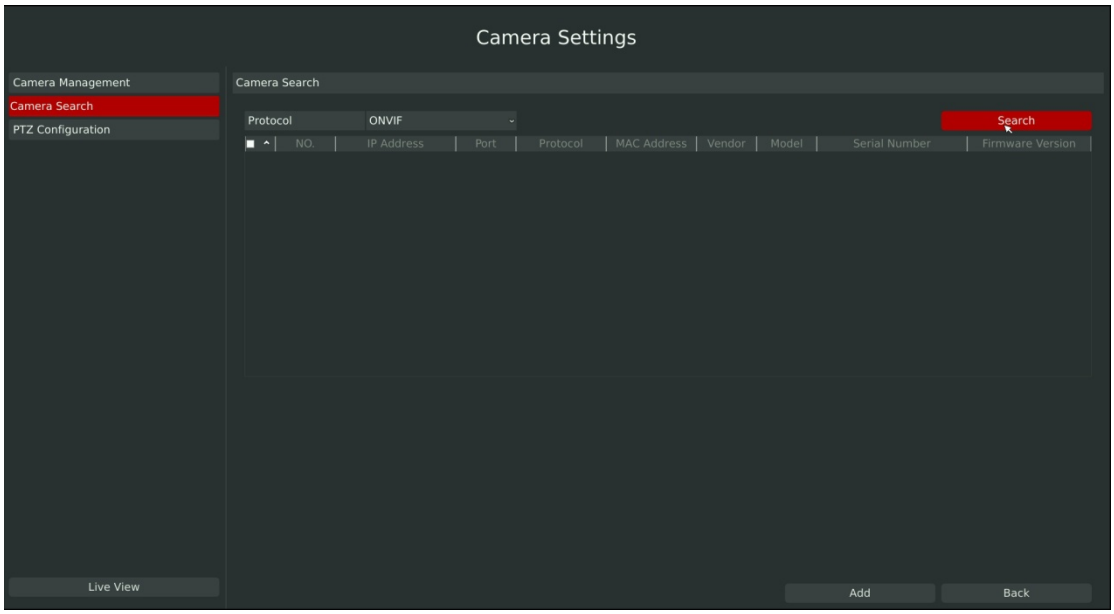


F-3.3.1

Step2.Add IP Channel

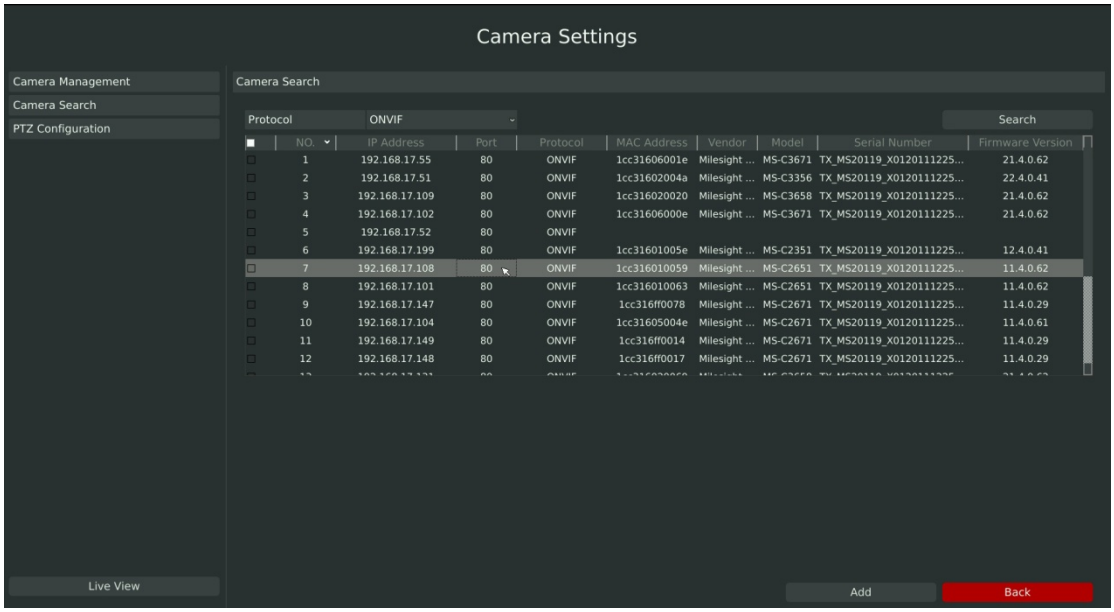
Method1. Add IP Channel in camera search interface

1.Enter to camera search interface by clicking Main Menu • Camera • Camera Search.



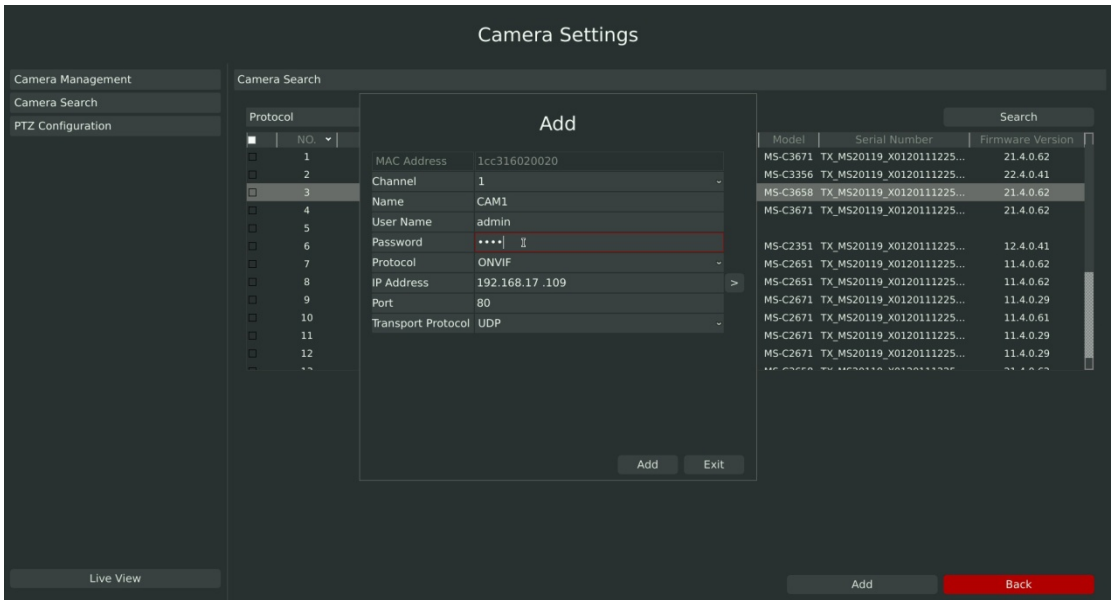
F-3.3.2

2. Click [search] button to quickly search the IP devices that support ONVIF at the same network segment with NVR.


Camera Settings
Camera Management
Camera Search
PTZ Configuration
Camera Search
Protocol
ONVIF
Search
NO.
IP Address
Port
Protocol
MAC Address
Vendor
Model
Serial Number
Firmware Version
1 192.168.17.55 80 ONVIF 1cc31606001e Milesight ... MS-C3671 TX_MS20119_X0120111225... 21.4.0.62
2 192.168.17.51 80 ONVIF 1cc31602004a Milesight ... MS-C3356 TX_MS20119_X0120111225... 22.4.0.41
3 192.168.17.109 80 ONVIF 1cc316020020 Milesight ... MS-C3658 TX_MS20119_X0120111225... 21.4.0.62
4 192.168.17.102 80 ONVIF 1cc31606000e Milesight ... MS-C3671 TX_MS20119_X0120111225... 21.4.0.62
5 192.168.17.52 80 ONVIF
6 192.168.17.199 80 ONVIF 1cc31601005e Milesight ... MS-C2351 TX_MS20119_X0120111225... 12.4.0.41
7 192.168.17.108 80 ONVIF 1cc316010059 Milesight ... MS-C2651 TX_MS20119_X0120111225... 11.4.0.62
8 192.168.17.101 80 ONVIF 1cc316010063 Milesight ... MS-C2651 TX_MS20119_X0120111225... 11.4.0.62
9 192.168.17.147 80 ONVIF 1cc316ff0078 Milesight ... MS-C2671 TX_MS20119_X0120111225... 11.4.0.29
10 192.168.17.104 80 ONVIF 1cc31605004e Milesight ... MS-C2671 TX_MS20119_X0120111225... 11.4.0.61
11 192.168.17.149 80 ONVIF 1cc316ff0014 Milesight ... MS-C2671 TX_MS20119_X0120111225... 11.4.0.29
12 192.168.17.148 80 ONVIF 1cc316ff0017 Milesight ... MS-C2671 TX_MS20119_X0120111225... 11.4.0.29
Live View
Add
Back

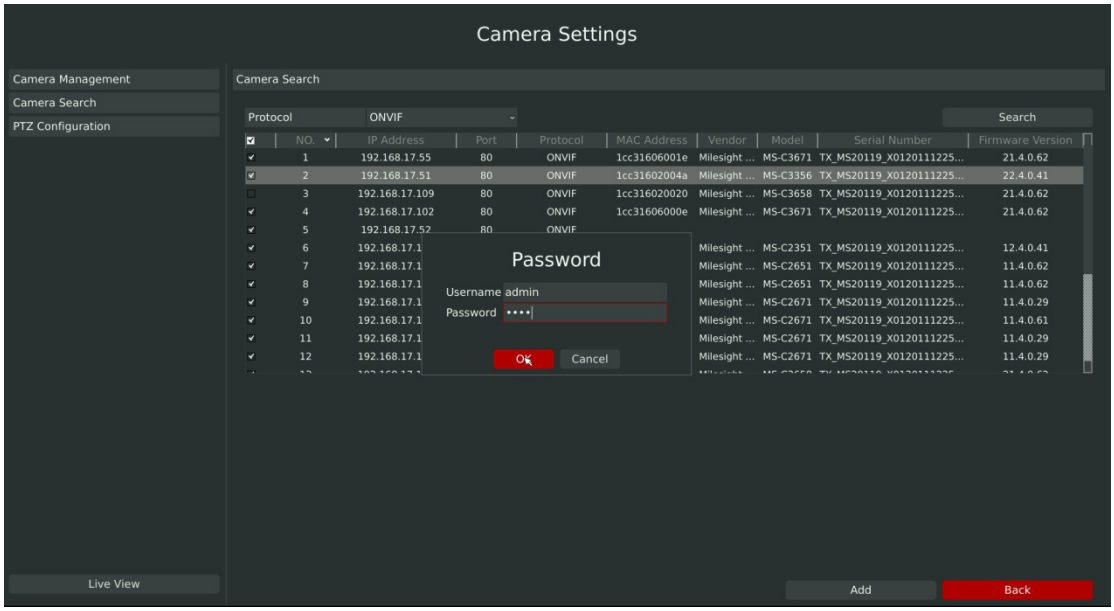
F-3.3.3

3. Double click the channel, input password and click [Add] button.



F-3.3.4

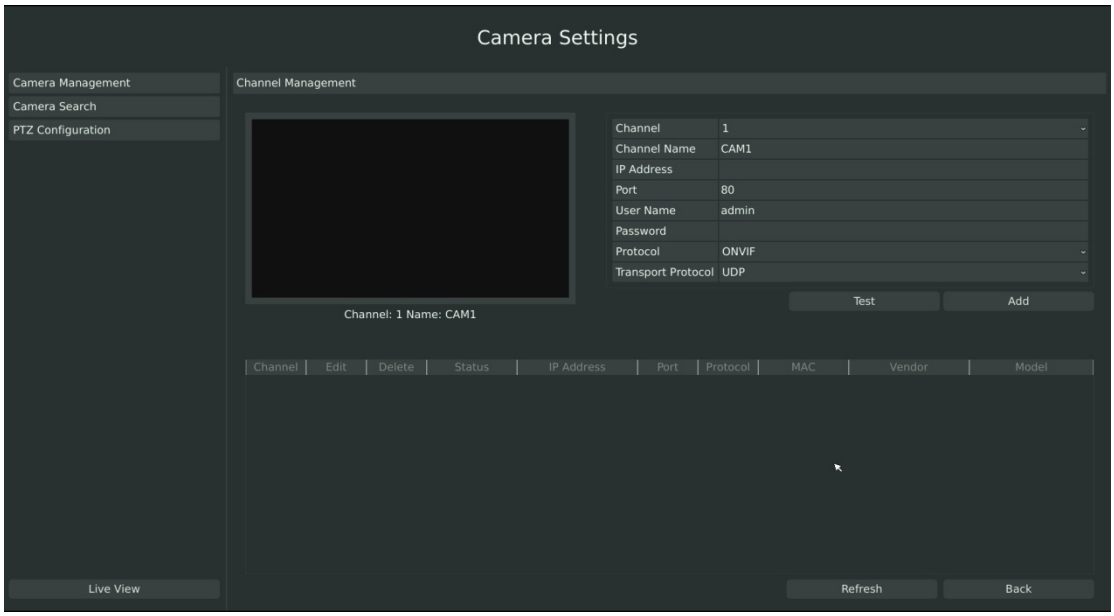
Or Check ☑ to bulk adding the IP cameras if they are with same password.



F-3.3.5

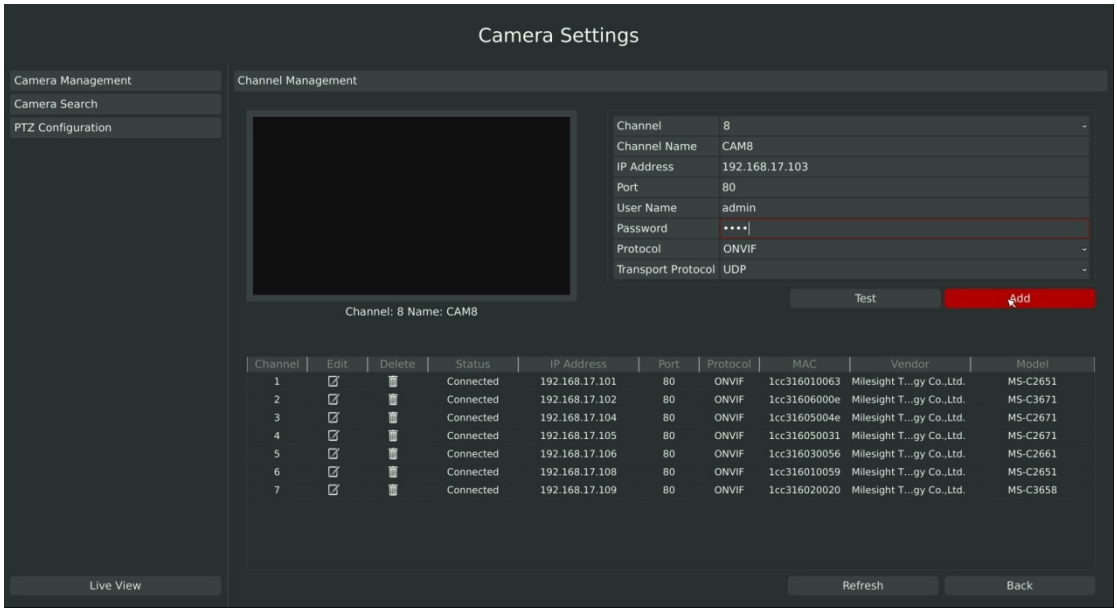
Method2. Add IP Channel in camera management interface

1.Enter to camera management menu by clicking Main Menu • Camera • Camera Management



F-3.3.6

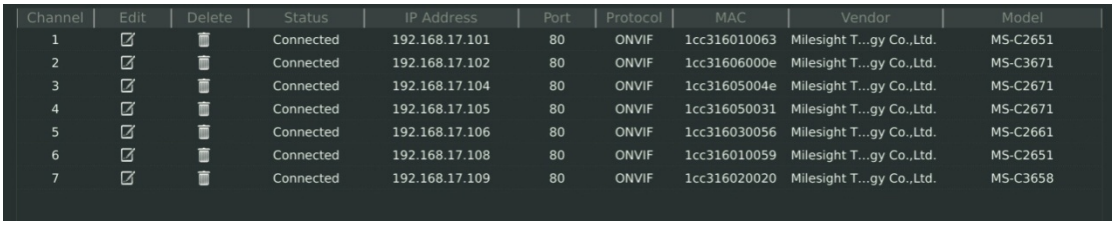
2. Select ‘IP Channel’ attribute page, select idle channel then input complete information Click [Add] button.



F-3.3.7

Step3.Check the connection status

After adding the IP channels, click [Refresh] button, the [state] will show [connected] as below, If not, you need to check if the network is connected or whether the user name, password is correct or not.

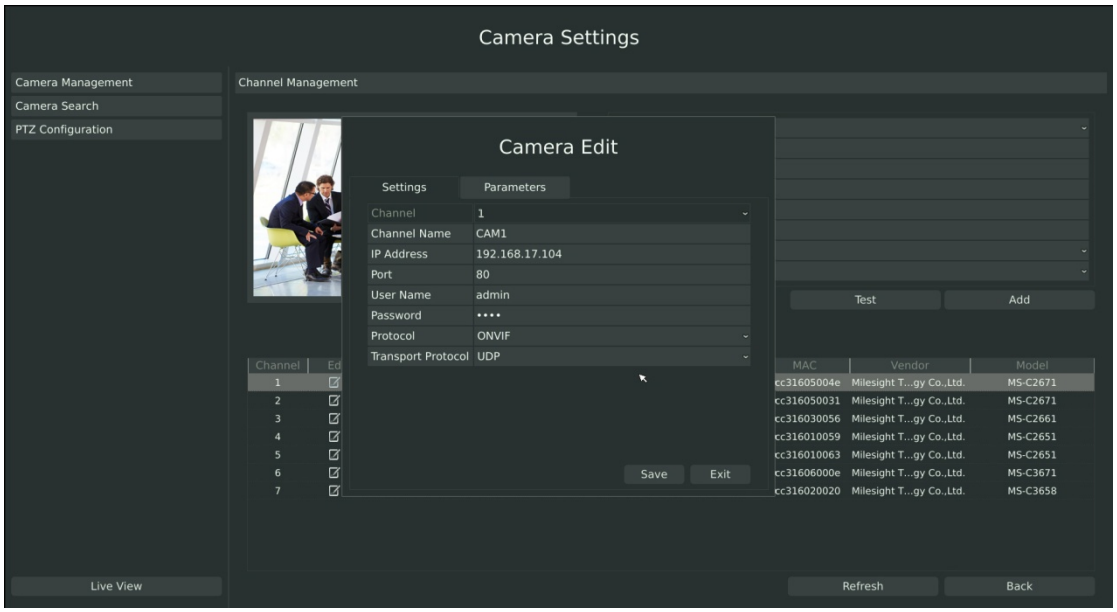


Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
1			Connected	192.168.17.101	80	ONVIF	1cc316010063	Milesight T...gy Co.,Ltd.	MS-C2651
2			Connected	192.168.17.102	80	ONVIF	1cc31606000e	Milesight T...gy Co.,Ltd.	MS-C3671
3			Connected	192.168.17.104	80	ONVIF	1cc31605004e	Milesight T...gy Co.,Ltd.	MS-C2671
4			Connected	192.168.17.105	80	ONVIF	1cc316050031	Milesight T...gy Co.,Ltd.	MS-C2671
5			Connected	192.168.17.106	80	ONVIF	1cc316030056	Milesight T...gy Co.,Ltd.	MS-C2661
6			Connected	192.168.17.108	80	ONVIF	1cc316010059	Milesight T...gy Co.,Ltd.	MS-C2651
7			Connected	192.168.17.109	80	ONVIF	1cc316020020	Milesight T...gy Co.,Ltd.	MS-C3658

F-3.3.8

Step4.Configure IP Channel

1. After successfully adding the channel, click or double-click this channel to re-edit the channel info, address, and password, etc.

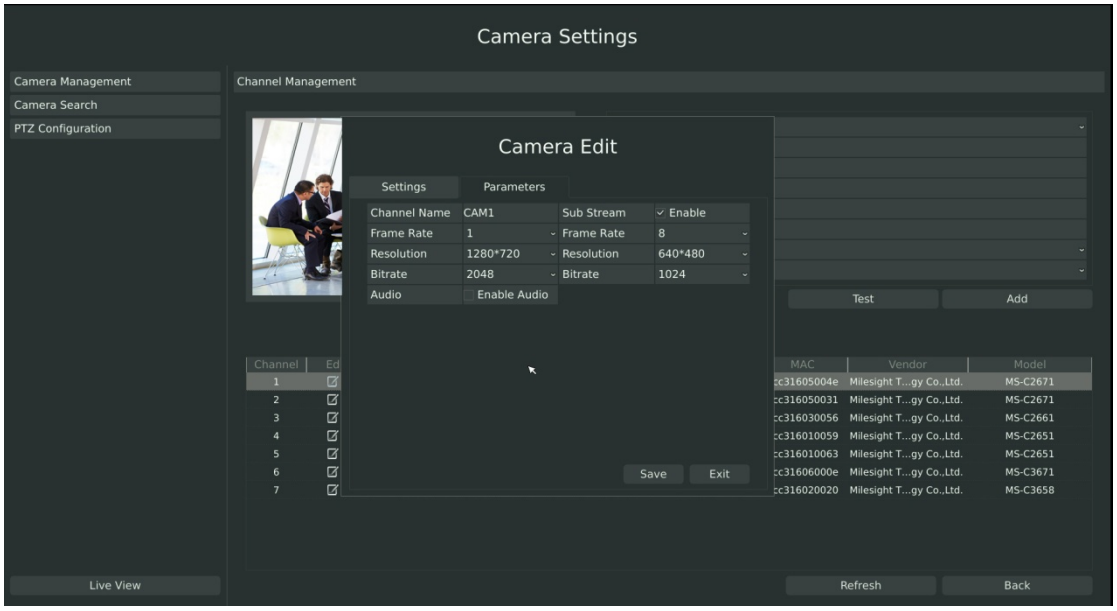


F-3.3.9

Note:

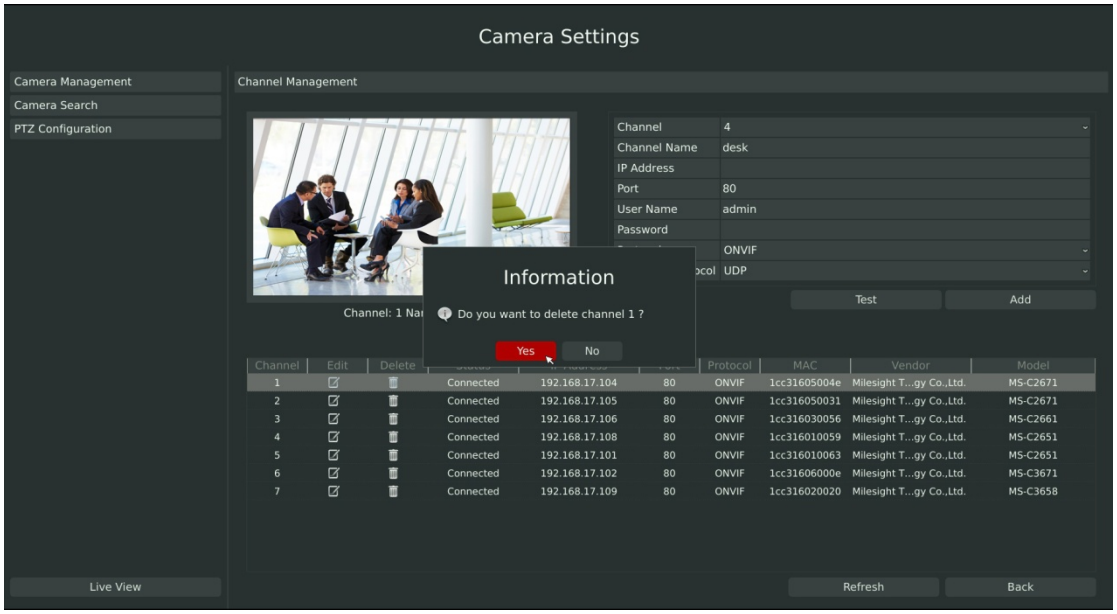
By default, the user name and password entered here are the default user name and password. The management port is 80 and the default Transport protocol is UDP.

2. Select [Parameters] attribute page to re-edit this channel parameters. Click [Save] to save the configuration



F-3.3.10

3. You can delete this IP channel by clicking

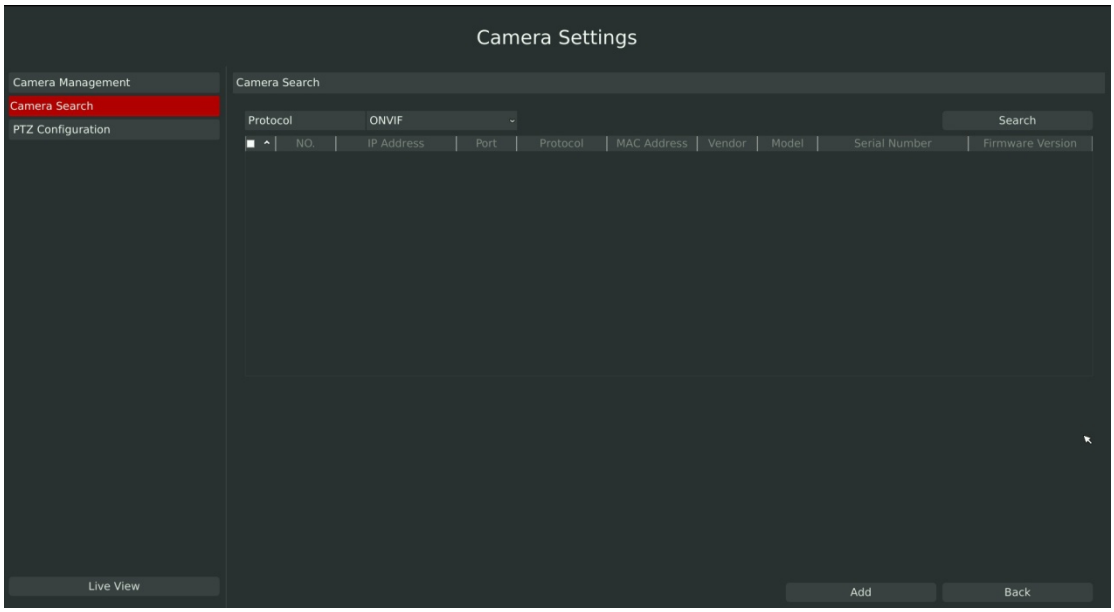


F-3.3.11

3.3.2 Camera Search

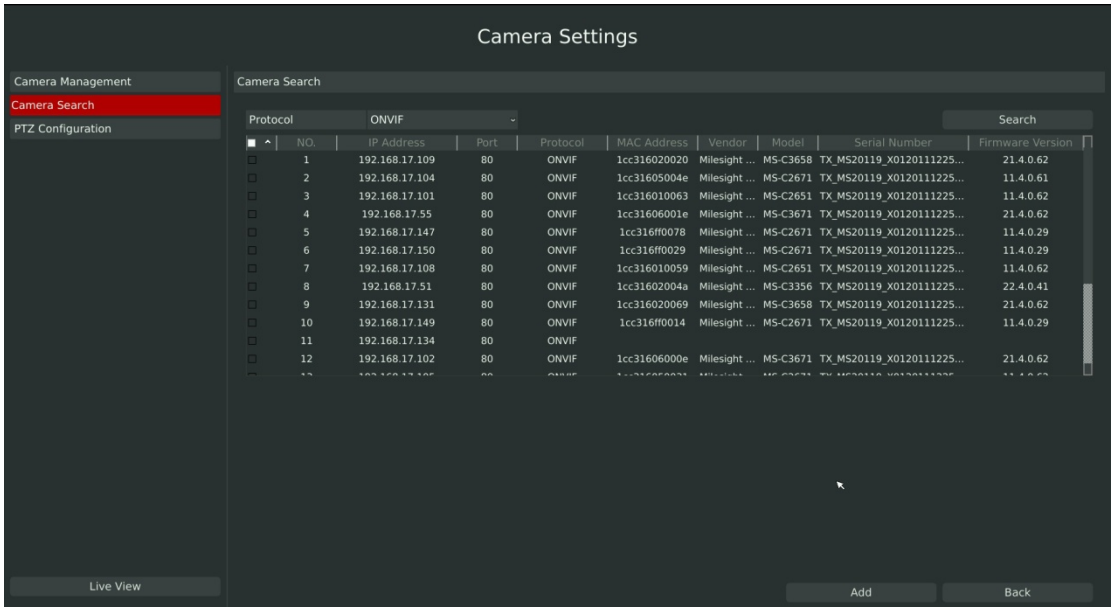
You can search and add IP cameras here

Step1.Enter camera search interface by clicking Main menu à Camera à Camera Search



F-3.3.12

Step2.Click [search] button to quickly search the IP devices that support ONVIF at the same network segment with NVR.



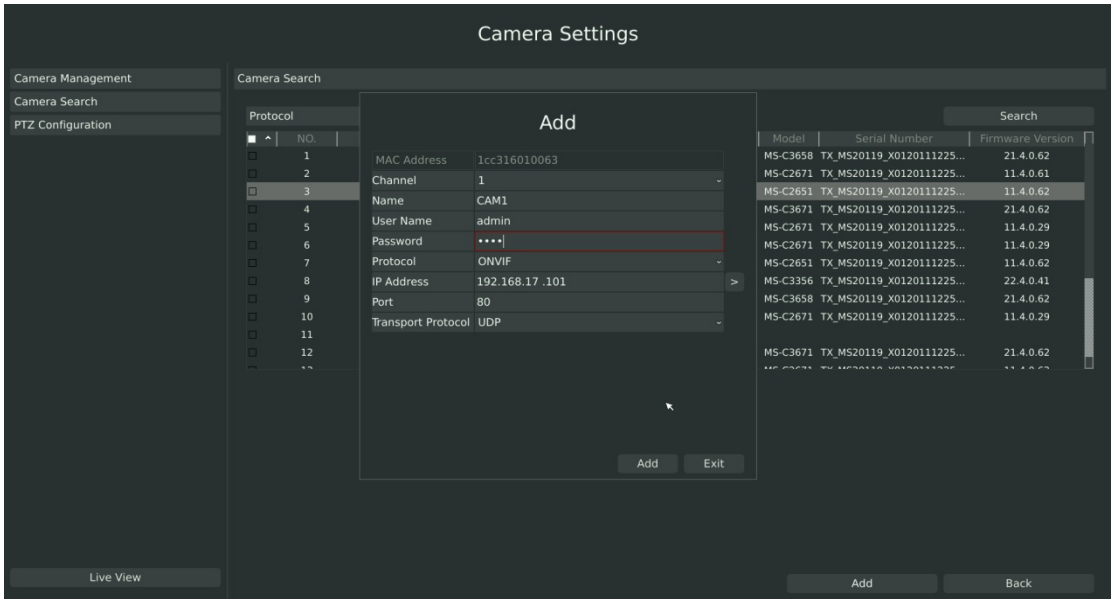
F-3.3.13

Note •

The IP devices found in the list are those that support ONVIF protocol and in the same network segment with NVR.

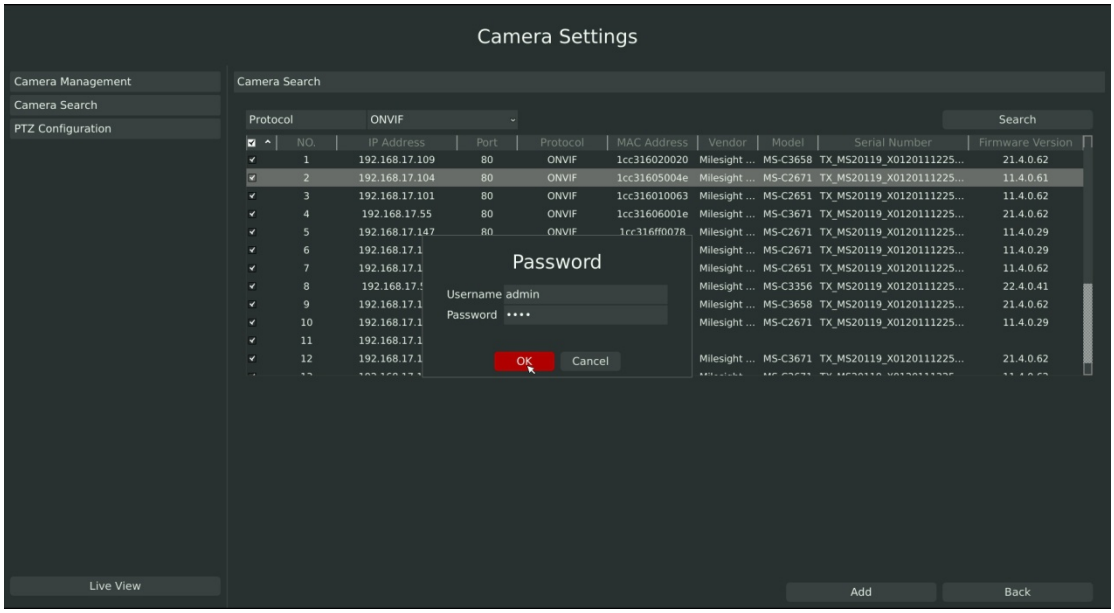
Step2.Add IP Camera

Double click the channel, input password and click [Add] button.



F-3.3.14

Or you can bulk adding the IP cameras if they are with same password. Click [OK] to finish bulk adding.



F-3.3.15

3.3.3 PTZ Configuration

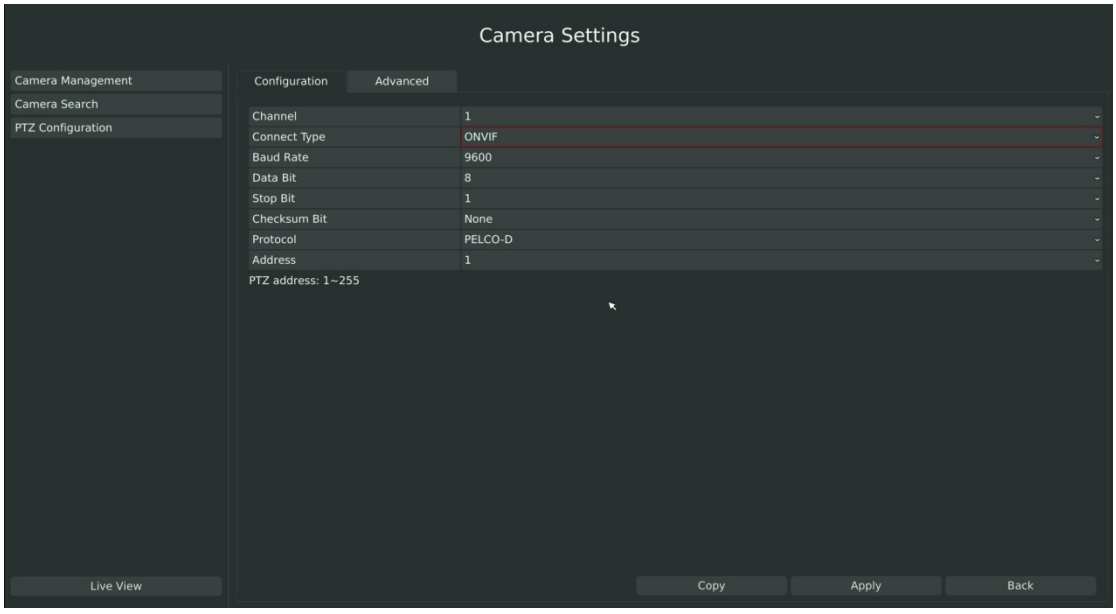
3.3.3.1 PTZ control Parameters Configuration

Note:

Settings for a PTZ camera must be configured before it can be used. Make sure that the PTZ and RS-485 of the NVR are connected properly.

Step: Enter configuration interface by clicking Main Menu à Camera à PTZ Configuration, select "Configuration" page

Select a channel and set the PTZ parameters. You can click [Copy] to copy the same configuration to other channels.



F-3.3.16

Note:.The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.

3.3.3.2 Advanced Configuration

There are two patrol ways can be set: Track Patrol and Tour Patrol

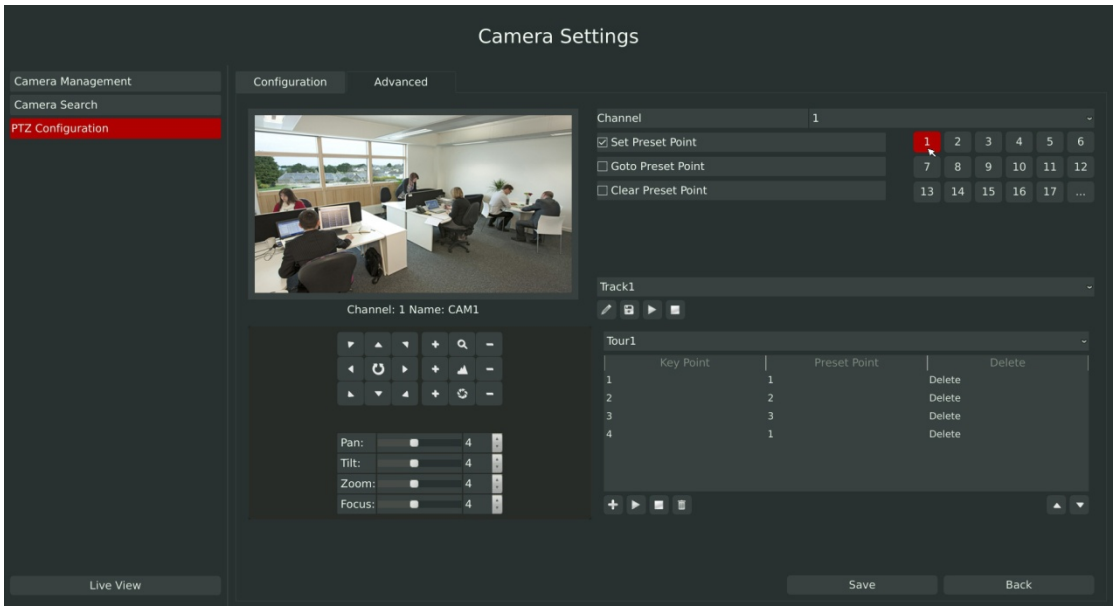
Note:
1. IP channel does not support configuration and calling of presets, patrols and patterns.
2. The functioning of presets patrols and patterns need front PTZ decoder to support.

Route: Main Menu à Camera à PTZ Configuration, select "Advanced" page

*Presets Point Setup

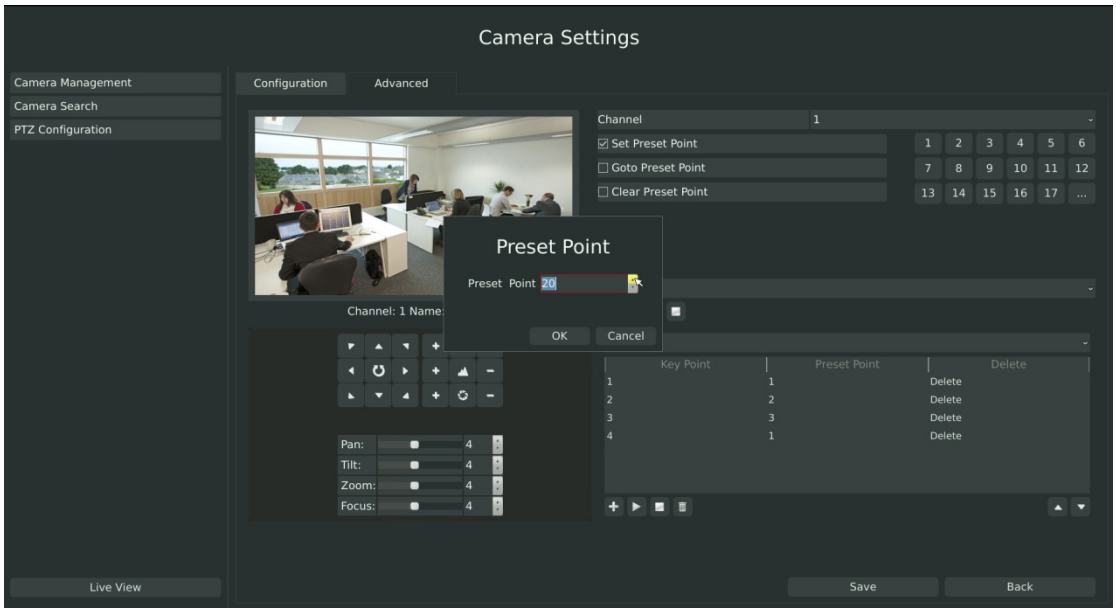
Preset can be set to move your PTZ camera to a desired preset location. The preset point is the preparation for Tour Patrol.

Step1. Use the PTZ direction key to rotate the position of preset. Then select "Set Preset Point", and select a preset number to finish a preset point setting. Repeat above steps to set more preset points.



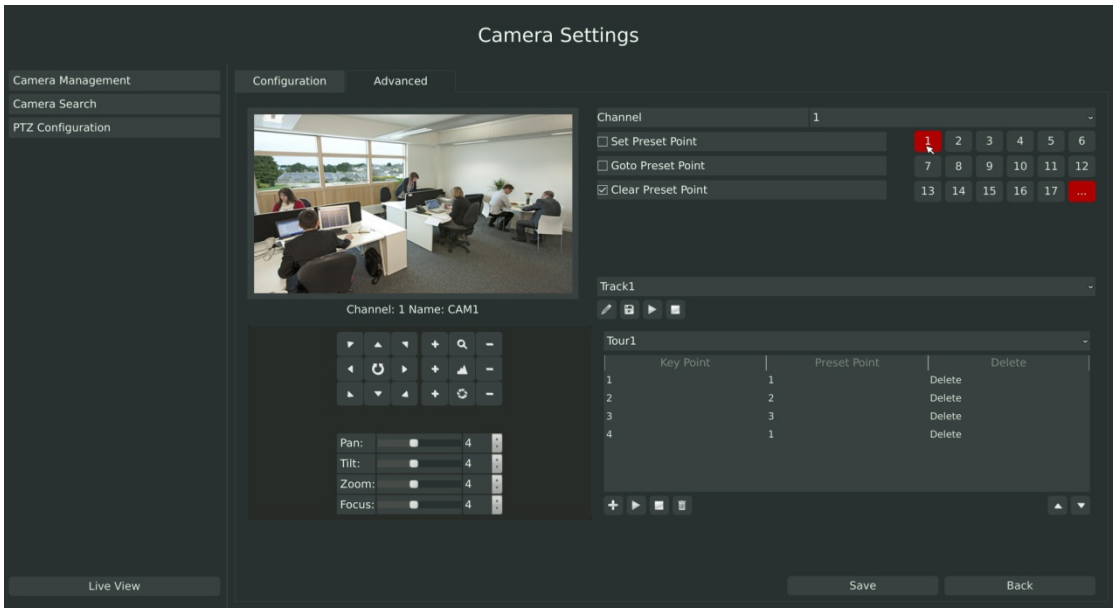
F-3.3.17

Step2. Click ... to save or call more preset points after number 17.



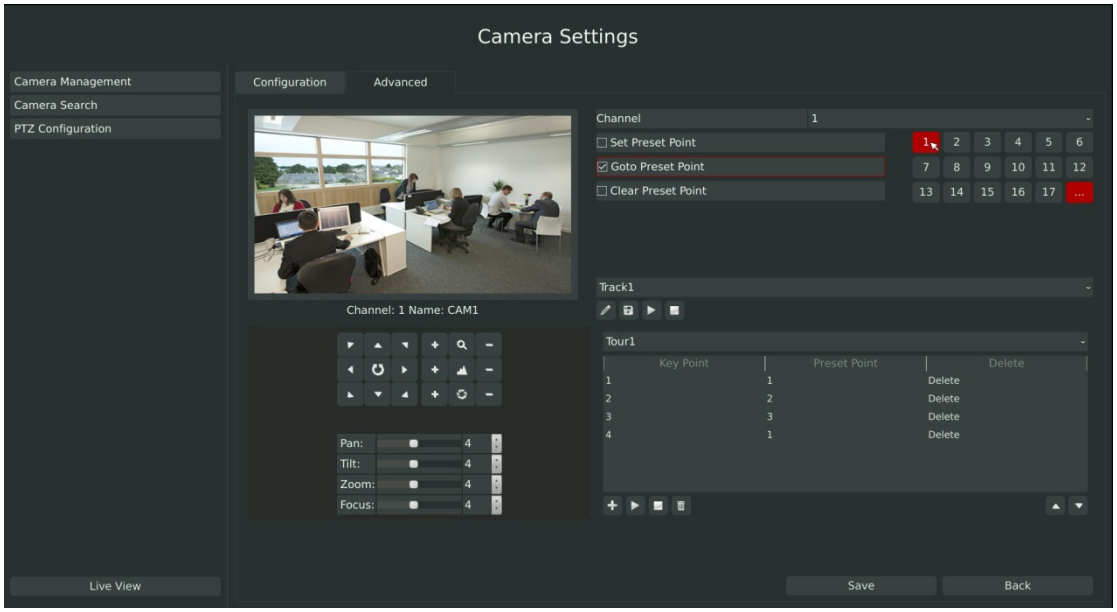
F-3.3.18

Step3. Select 'Clear Preset Point' and click a preset number to delete the preset point.



F-3.3.19

Step4. Select “Goto Preset Point”. Click a preset number to check the preset point.

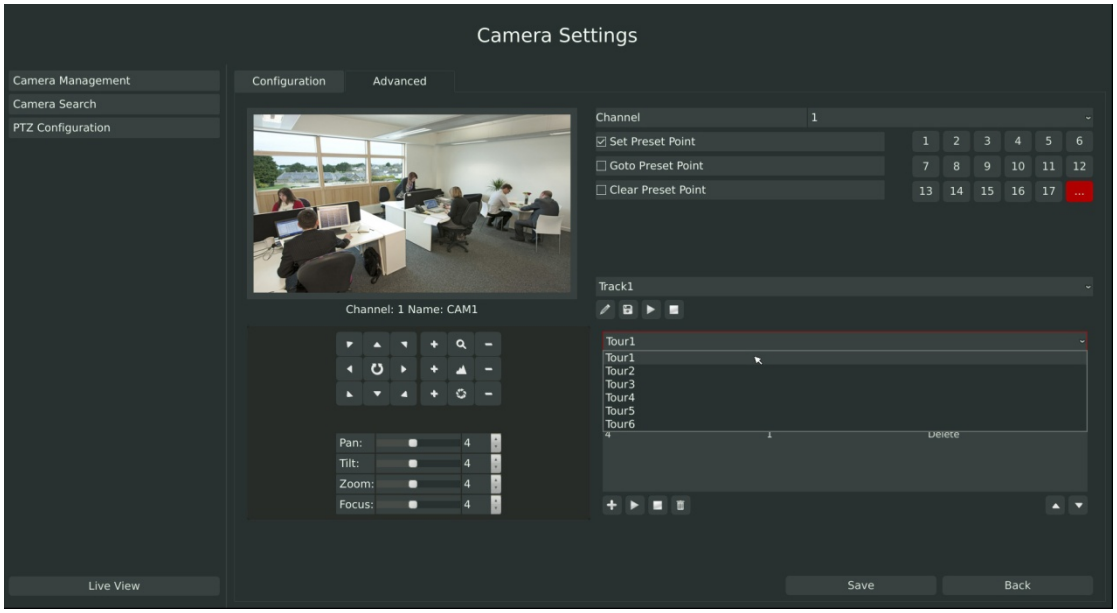


F-3.3.20

* Tour Patrol

The camera will patrol according to the key points. The total time and patrol speed of the tour is variable.

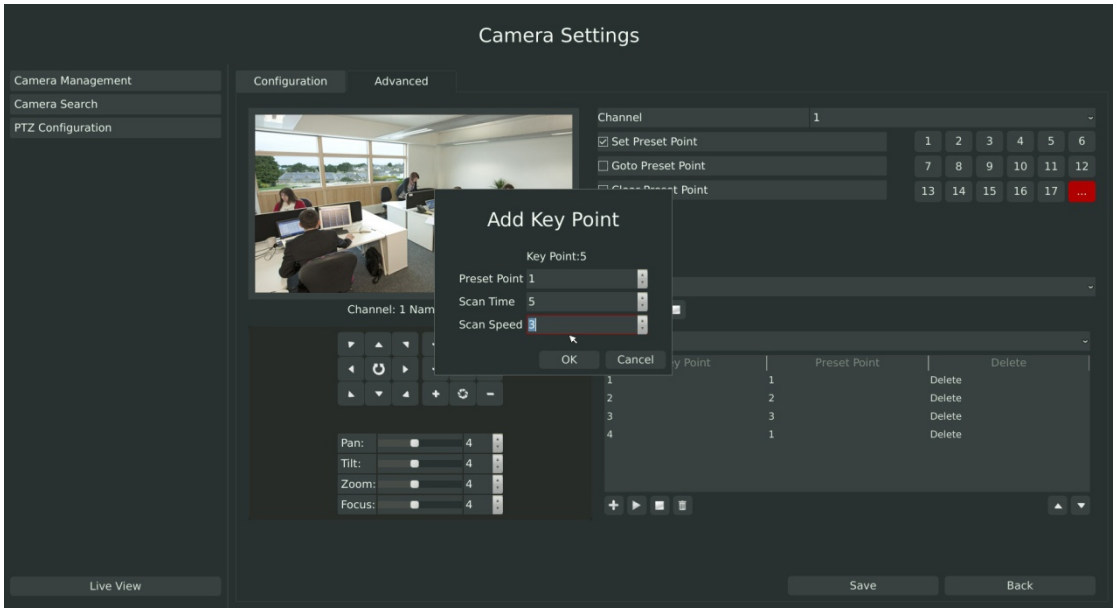
Step1. Select a tour. Up to 6 tours could be set.



F-3.3.21

Step2. Click **to add key points. Set the key point parameters (including preset point**

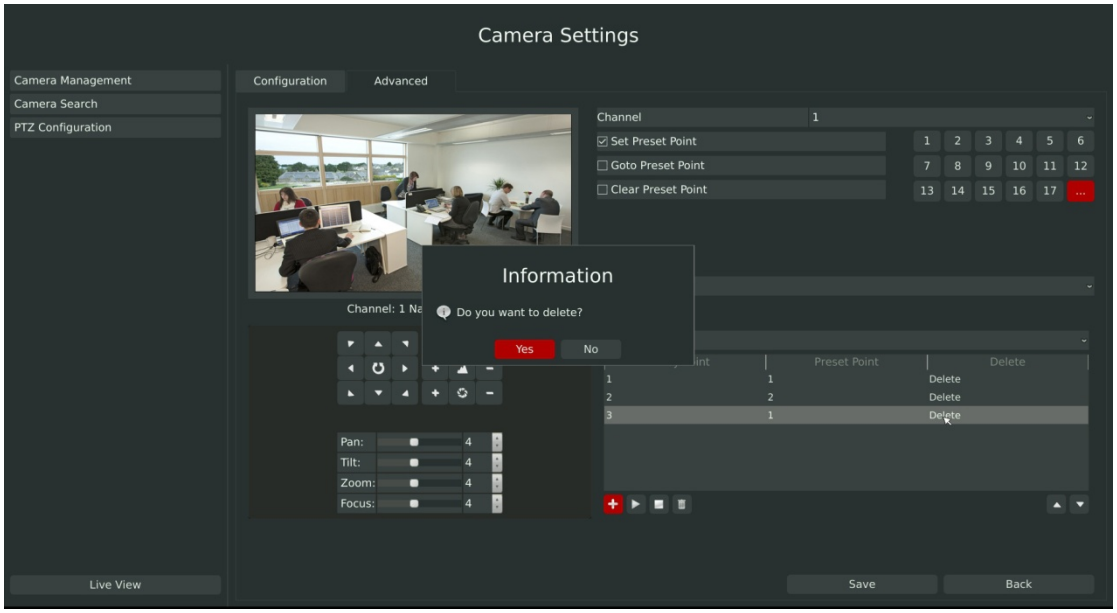
number, scan time and scan speed) and click [OK].



F-3.3.22

Step3. Repeat the above steps to add more key points to the tour patrol.

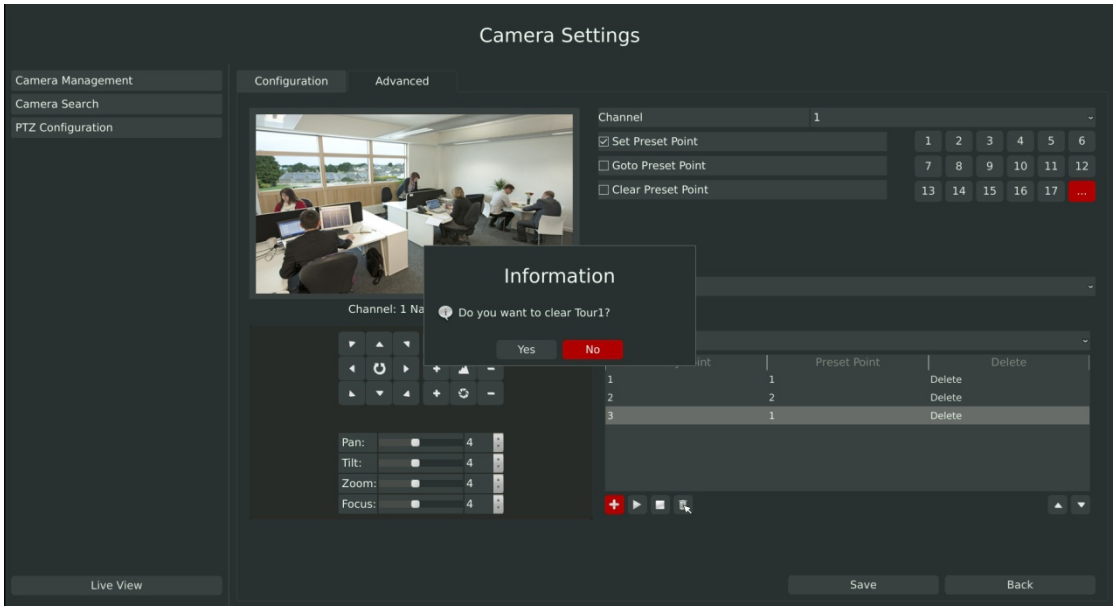
Step4. Select a key point, select [Delete] and select [Yes] in the dialog box to delete it.



F-3.3.23

Step5. Click **to preview the tour patrol. Click** **to stop.**

Step6. Click and select [Yes] in the dialog box to delete all key points of the tour patrol.



F-3.3.24

Note:

1. The key point decides the patrol path, which will run according to numerical order of the key points.

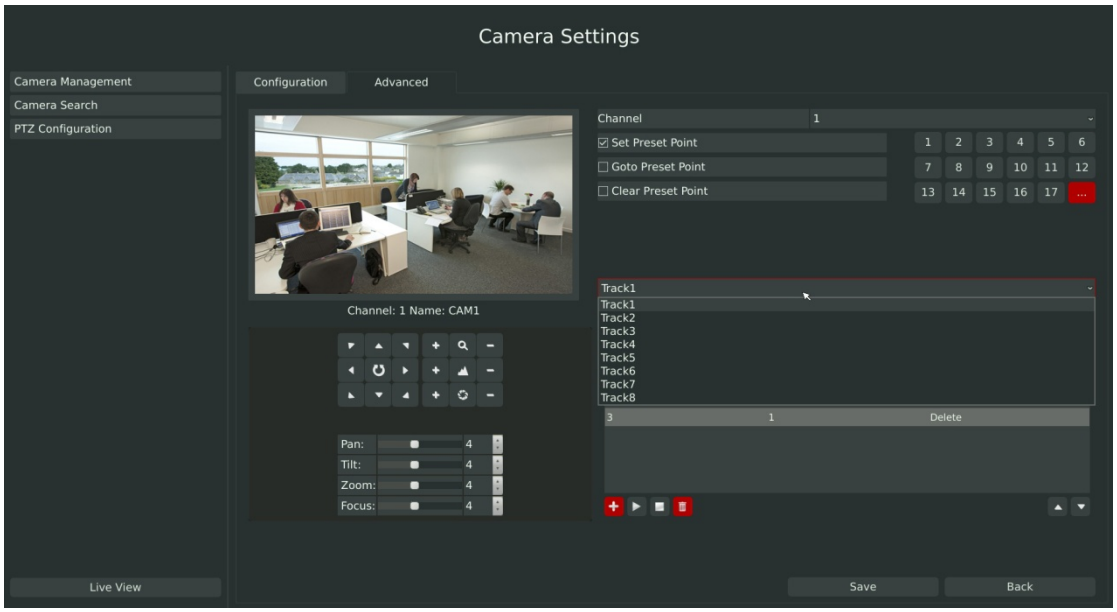
2. Scan time is how long the patrol stays on the preset point.

3. Scan speed is the rotate speed of speed dome from one preset point to the next.

*** Track Patrol**

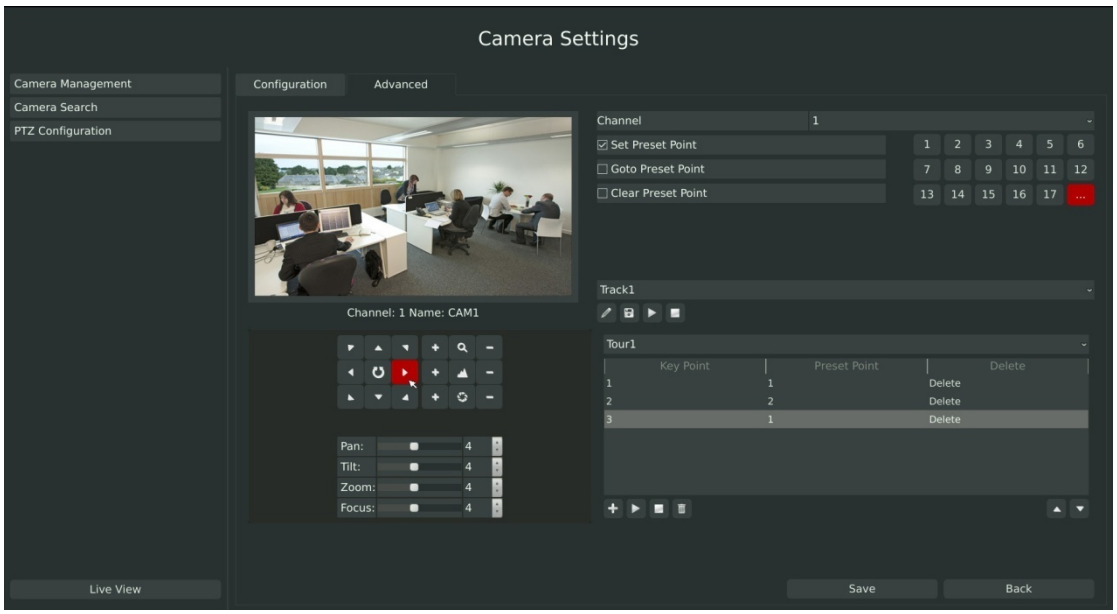
The camera will patrol back and forth in a constant speed. There are only a start point and an end point.

Step1. Select a track and click . Up to 8 tracks could be set.



F-3.3.25

Step2. Drag the mouse or click 8 direction keys or mouse control field to rotate PTZ.



F-3.3.26

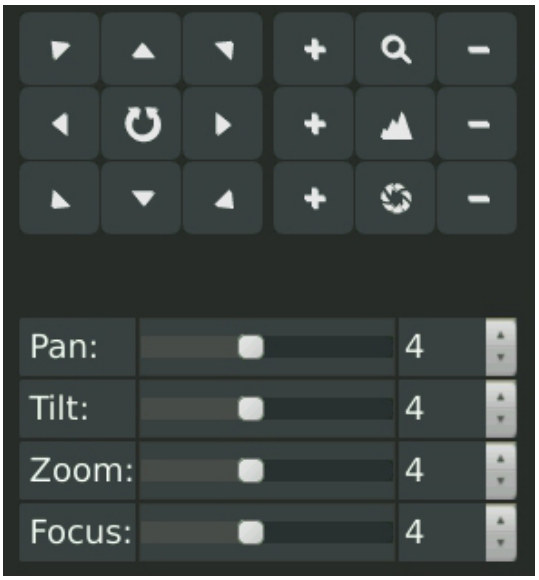
Step3. Click to save the PTZ movement patterns to the Track Patrol.

Step4. Click to preview the track patrol. Click to stop.

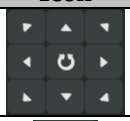
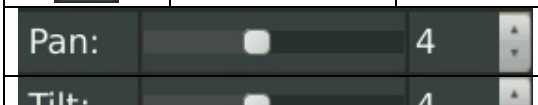
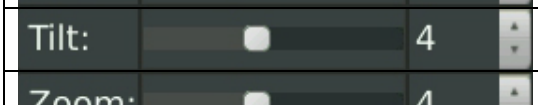
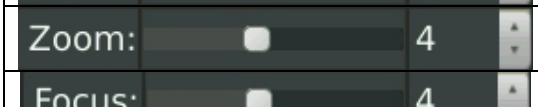
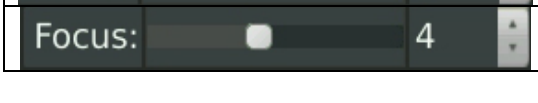
3.2.3.3 PTZ Control Operation

In live view mode, select quick menu of live view channel to enter PTZ control mode. It can access PTZ control by PTZ control bar or panel PTZ control button.

Description of PTZ Control Bar



F-3.3.30

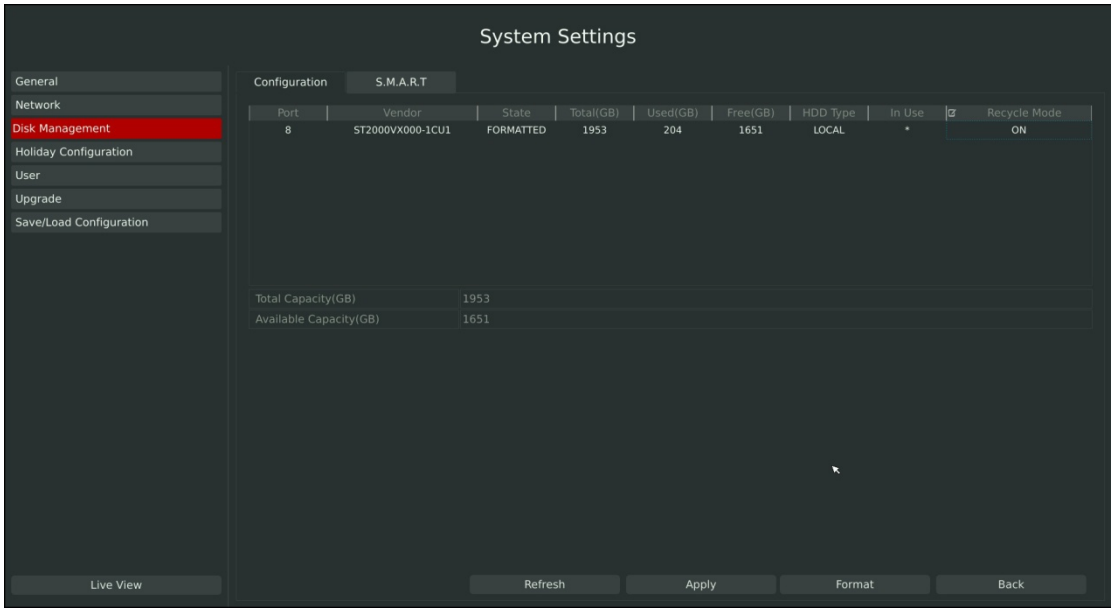
Icon	Description	Icon	Description	Icon	Description
	PTZ Direction Control and Auto Scan Button		Adjust Zoom+,Focus+ ,IRIS+		Adjust Zoom-,Focus-, IRIS-
	Zoom: Zoom in or out		Focus		IRIS
			Horizontal Movement Adjustment		
			Vertical Movement Adjustment		
			Zoom Adjustment		
			Focus Adjustment		

3.4 Record Settings

Preparation for Configuration

Step1.Ensure your NVR has Install and initialize the HDD.

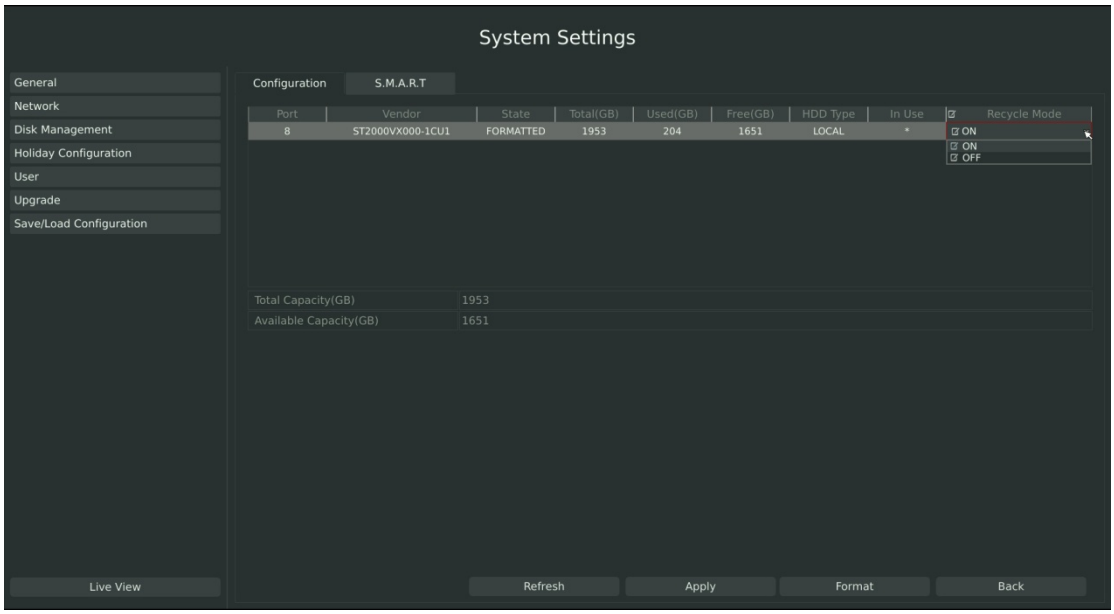
Enter disk management interface by clicking System Settings • Disk Management



F-3.4.1

Step2. Ensure that HDD has sufficient storage space.

Enter disk management interface by clicking System Setting • Disk Management. Select [Recycle Mode] to ON in the case of insufficient capacity of HDD.

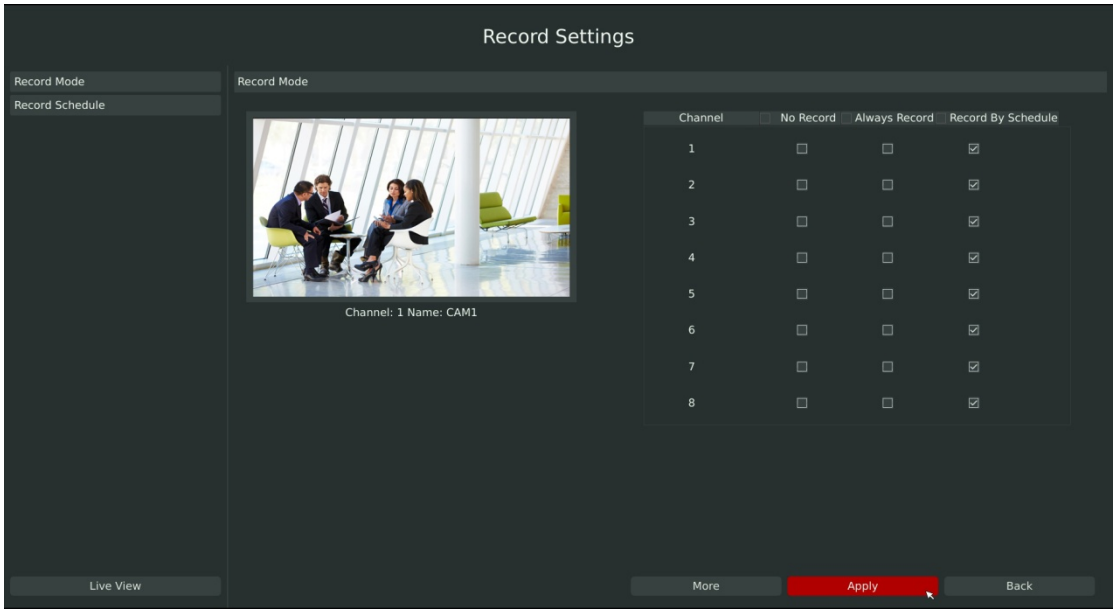


F-3.4.2

3.4.1 Record Mode

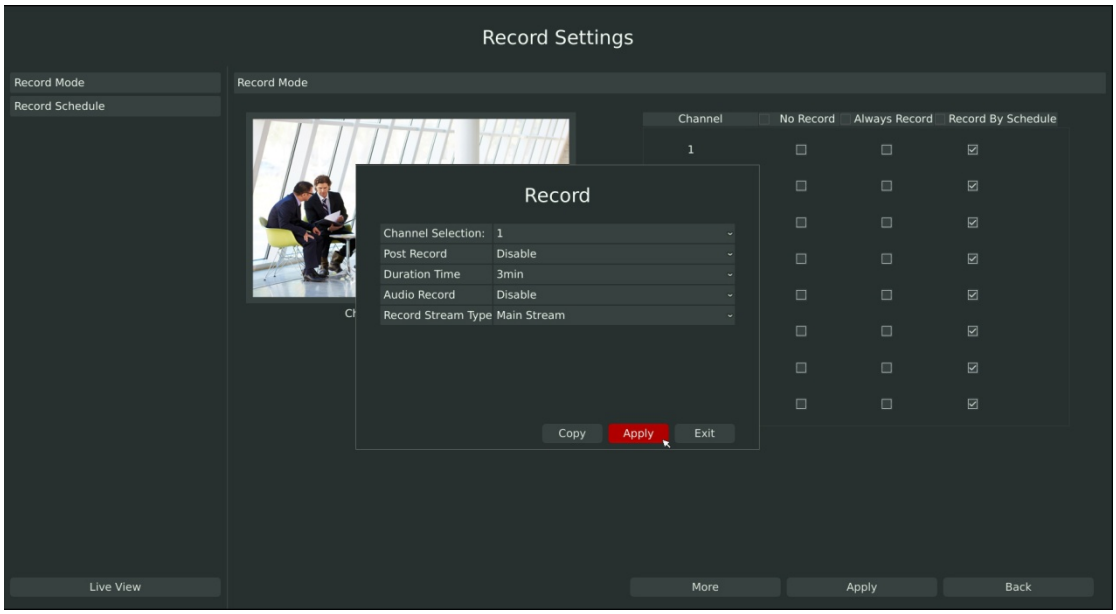
Step 1. Enter to record mode menu by clicking Main Manu • Record • Record Mode.

There are three record modes: No Recording/Always Record/Record by Schedule. You can select desired one to every channel.



F-3.4.3

Step2. Click [More] to setup recording general setting.

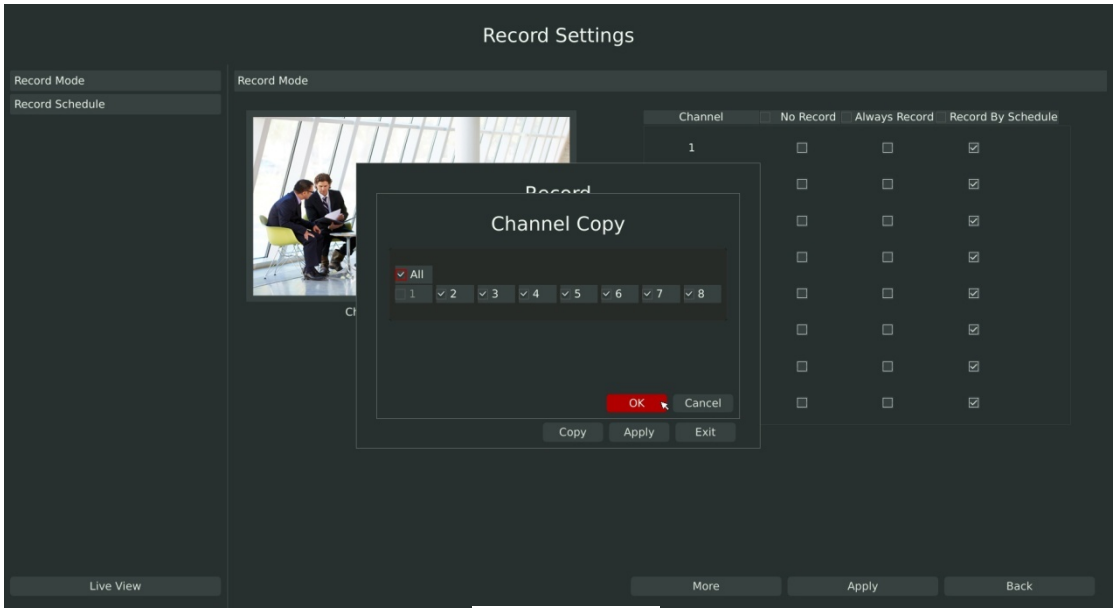


F-3.4.4

Illustration for Parameters

[Prev Record Enable]: Enable/Disable the event pre-record before event alarm.
[Duration Time]: Event pre-record duration before event alarm
[Post Record Enable]: Enable/Disable post record after the event is over
[Audio Record]: Select to record audio or not
[Record Stream Type]: Select Main stream or sub stream for record

Step3. Click [Copy] to copy settings to other channels, and then click [OK].



F-3.4.5

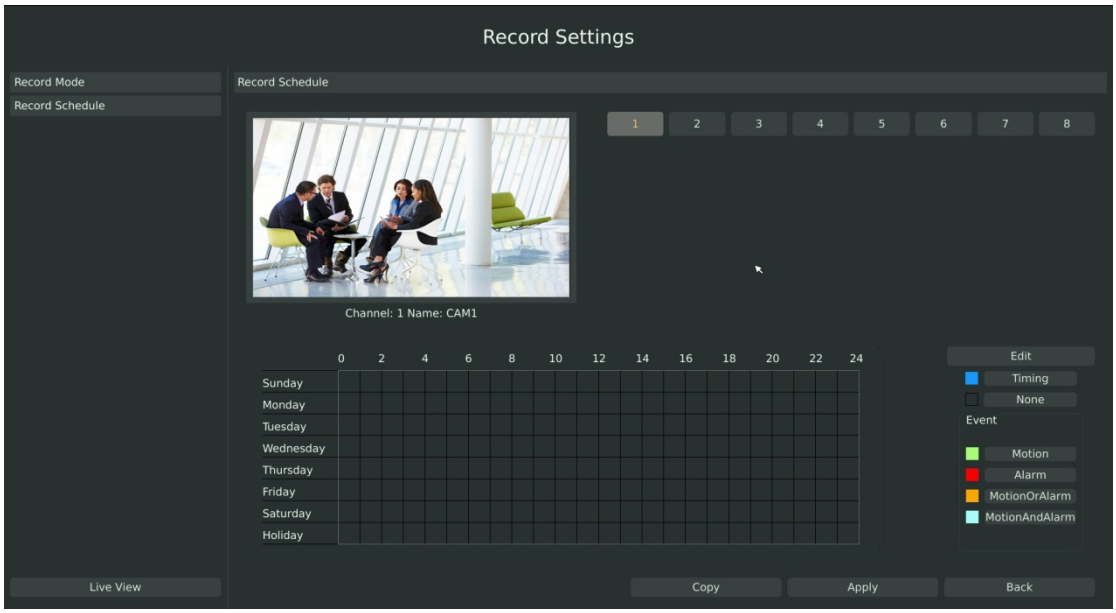
Step4. Click [Apply] to save the configuration

3.4.2 Record Schedule Setting

Note: The days are devided as Holiday/Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/ Saturday. The schedule of Holiday is superior to other days. To set the holiday information, go to Chapter.3.8.4.

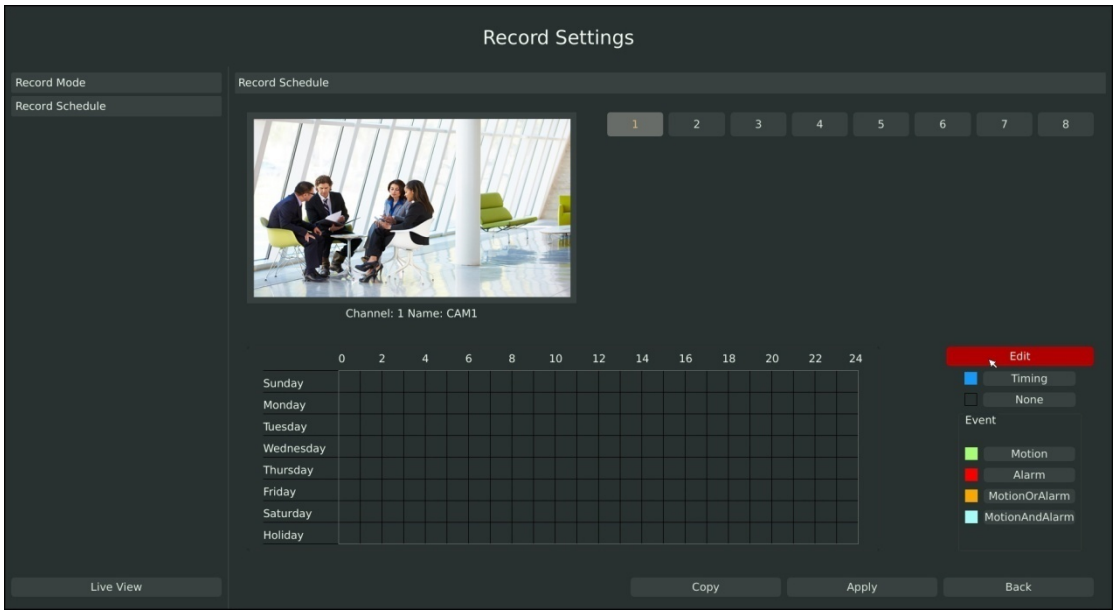
Method 1. General Setting

Step1.Enter Record schedule interface by clicking Record Settings • Record Schedule



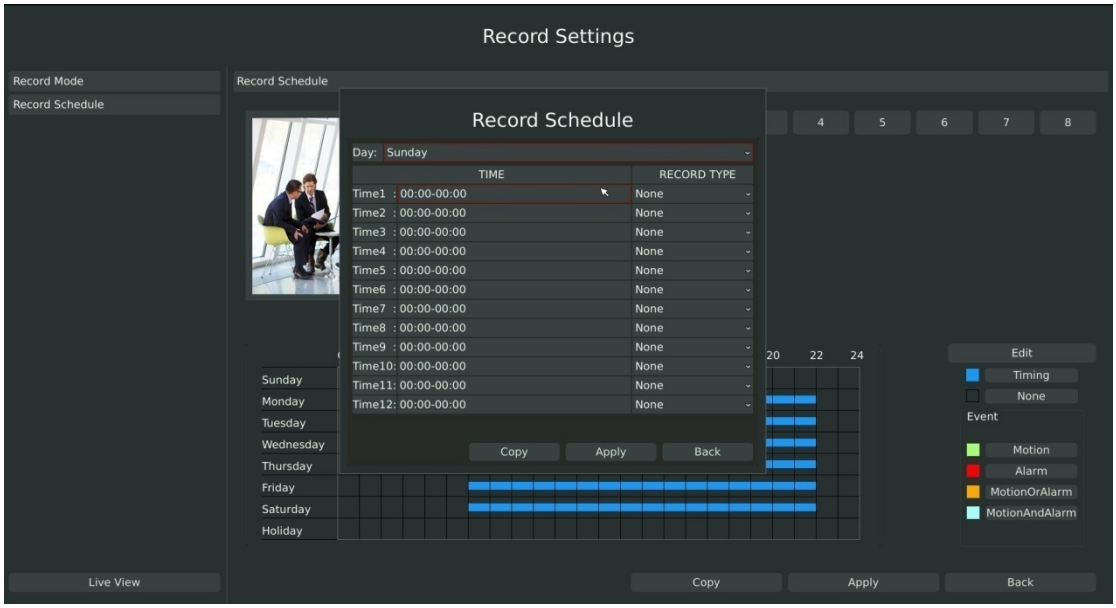
F-3.4.6

Step2.Select desired channel (eg.Channel 1) and click [Edit] button



Step3.Set record schedule F-3.4.7

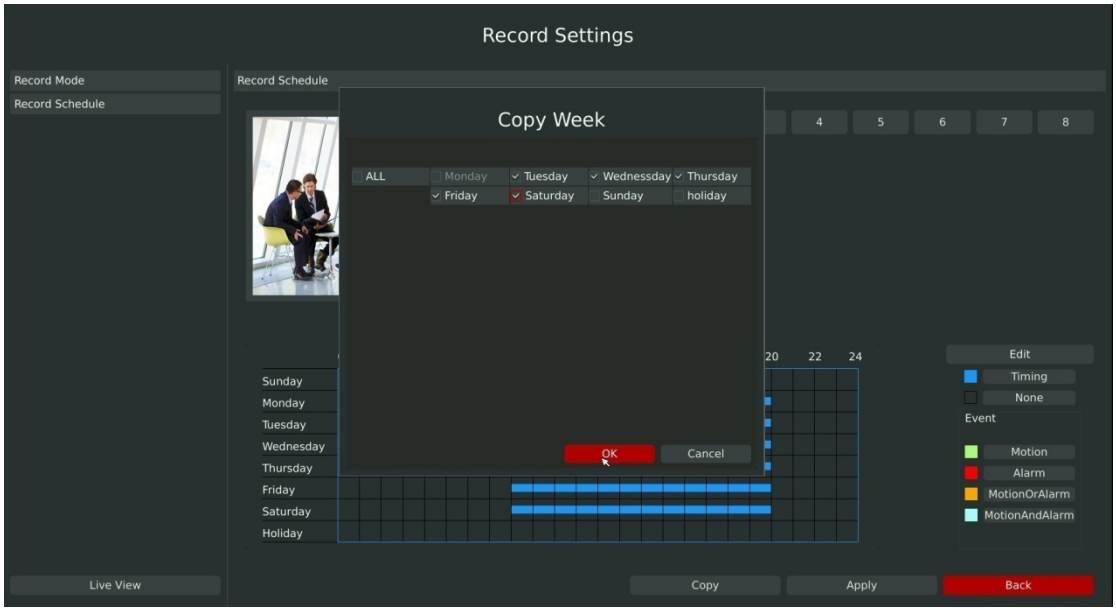
Select a day from the drop-down list of [Day], and select [Record Type] to setup the recording period, up to 12 periods can be set. (eg.01:00 to 05:00 for none recording; 06:00 to 18:00 for timing recording; 19:00 to 21:00 for Motion recording; 22:00 to 24:00 for Alarm recording)



F-3.4.8

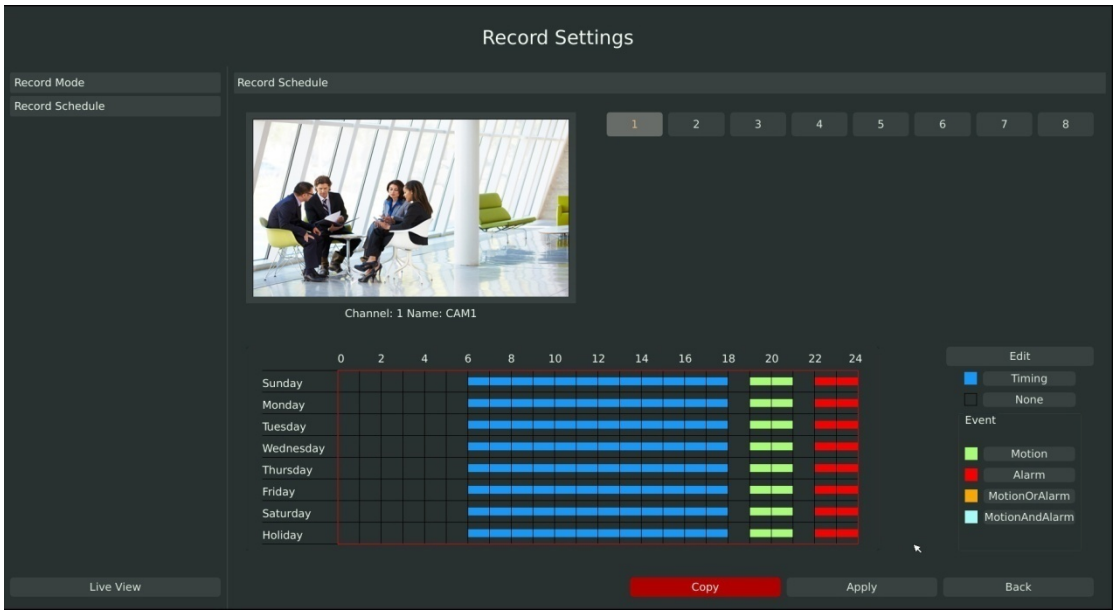
Note: Time periods cannot overlap with each other.

Step4.Click [Copy] to copy settings to other weekdays, and then click [Apply] to confirm the setting.



F-3.4.9

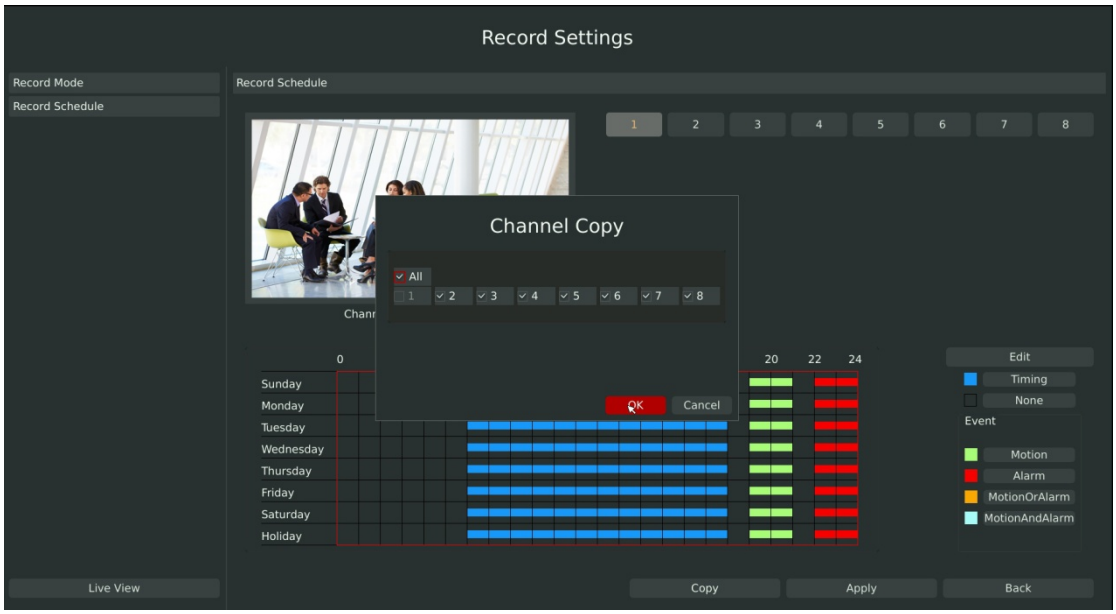
Step5.After above steps, this channel with show as below:



F-3.4.10

Step6.Copy the recording settings to other channels

Select [Copy] to copy the same settings to other channels. And click [OK] to save the configuration.



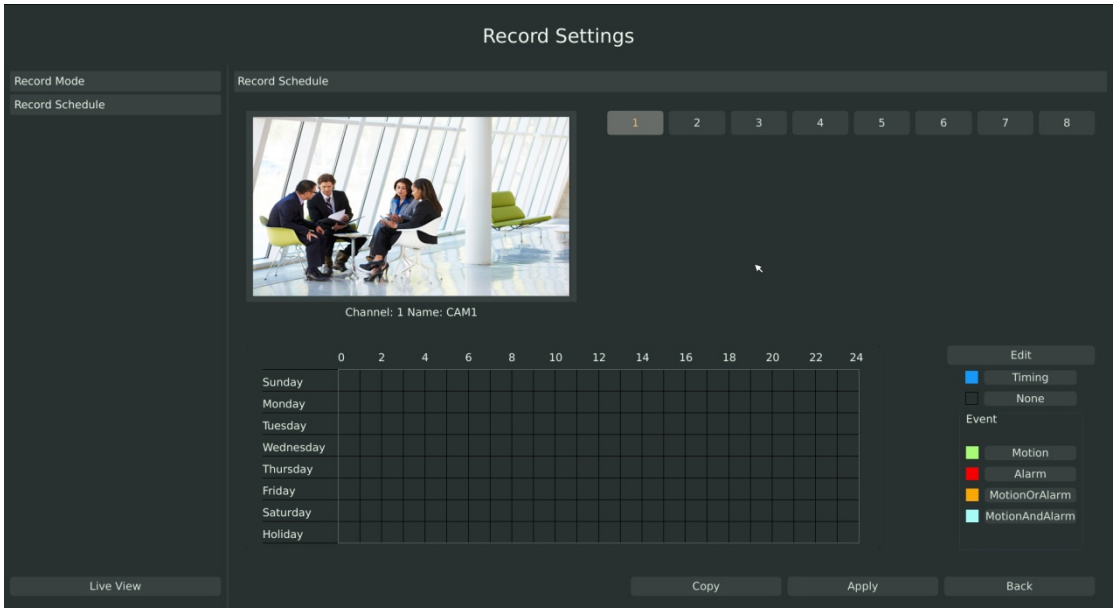
F-3.4.11

Step7.Save the configuration

Click [Apply] button to save the configuration, and then click [Back] to return to the previous menu.

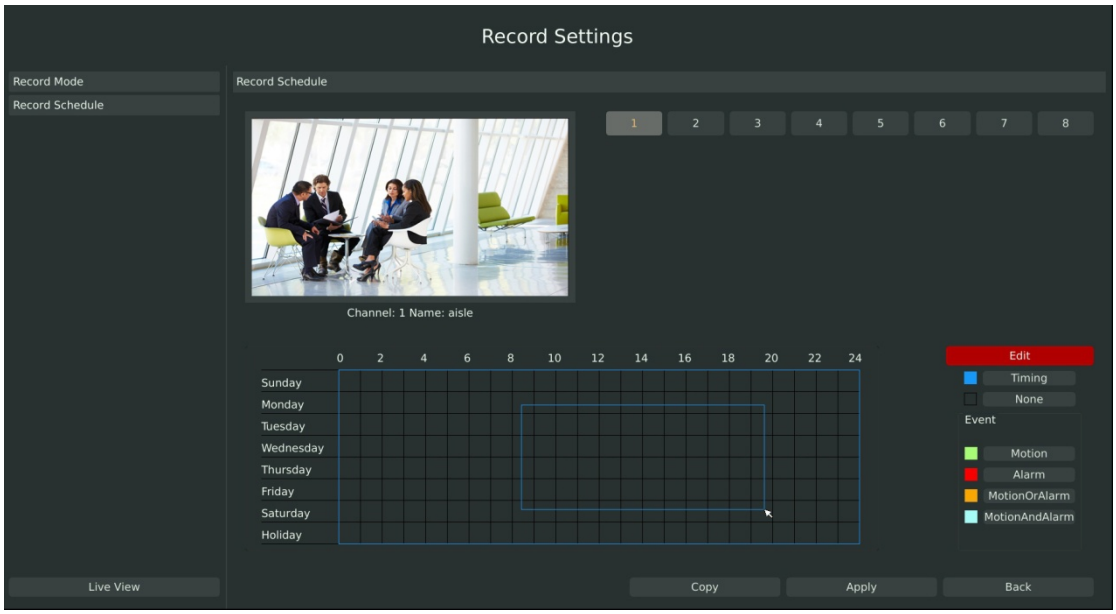
Method2.Set record schedule by drag the mouse

Step1.Enter Record schedule interface by clicking Record Settings • Record Schedule



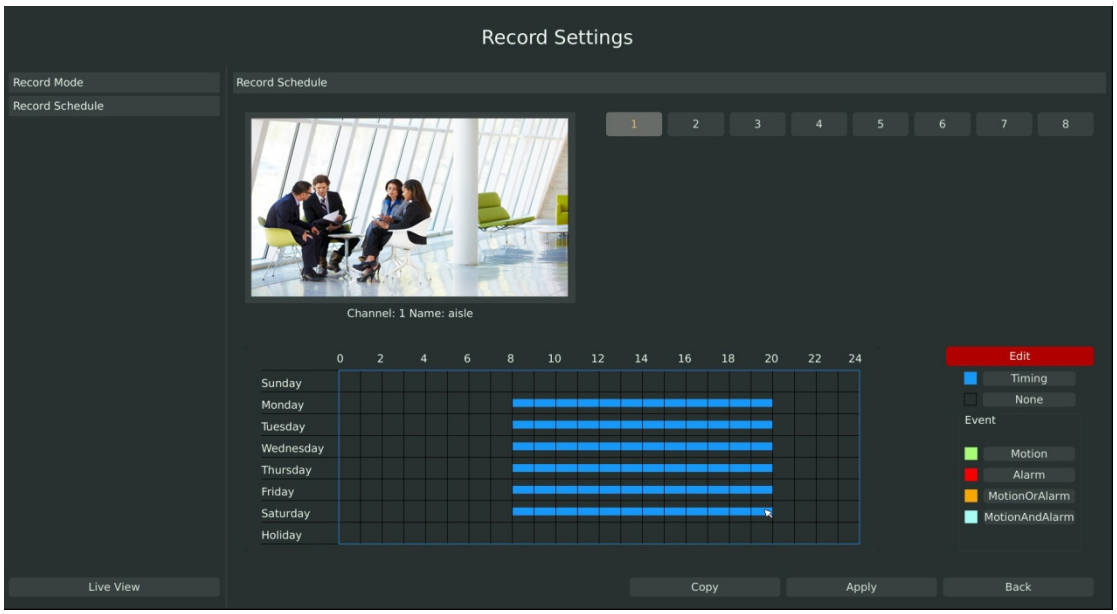
F-3.4.12

Step2.Click desired channel and record type show as below:


Record Settings
Record Mode
Record Schedule
Record Schedule
1
2
3
4
5
6
7
8
Channel: 1 Name: aisle
0
2
4
6
8
10
12
14
16
18
20
22
24
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Holiday
Edit
Timing
None
Event
Motion
Alarm
MotionOrAlarm
MotionAndAlarm
Live View
Copy
Apply
Back

F-3.4.13

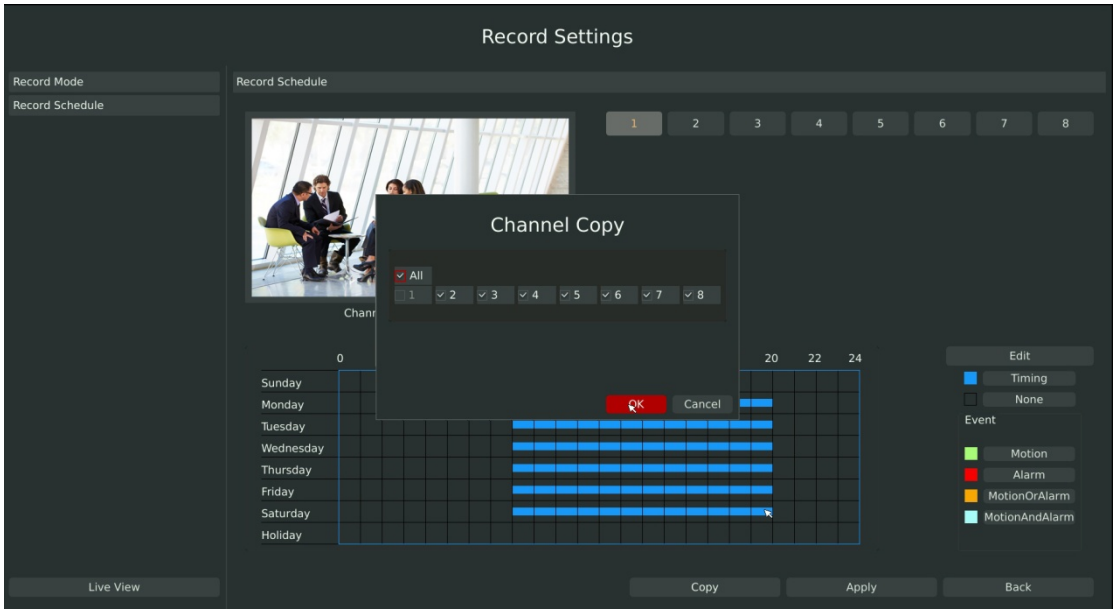
Step3.Drag the mouse to draw certain areas in recording setting zone, and then click [Apply] to save the configuration.



F-3.4.14

Step4.Copy the recording settings to other channels.

Select [Copy] to copy the same settings to other channels. And click [OK] to save the configuration.



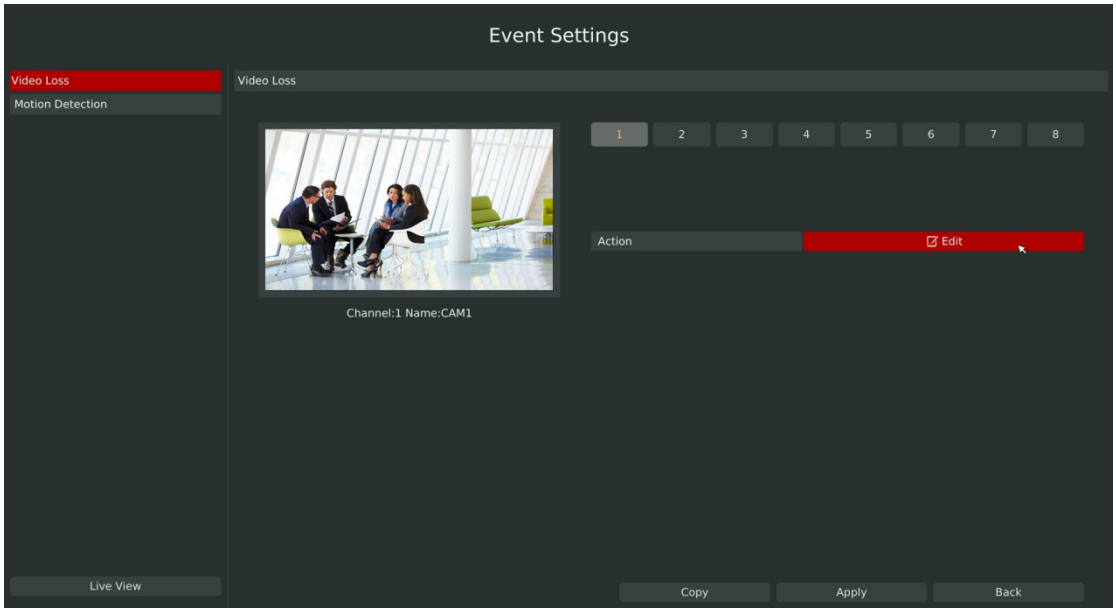
F-3.4.15

3.5 Event Settings

3.5.1 Video Loss Setting

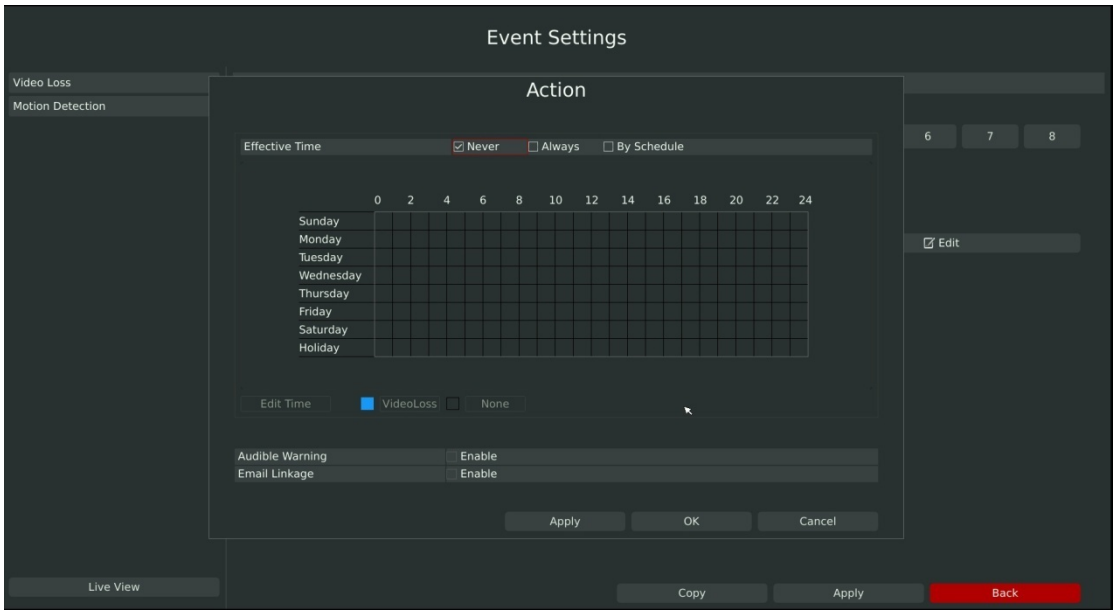
Your NVR can be setup to detect video loss and trigger an action.

Step1.Enter video loss configuration interface by clicking Main Menu • Event • Video Loss .



F-3.5.1

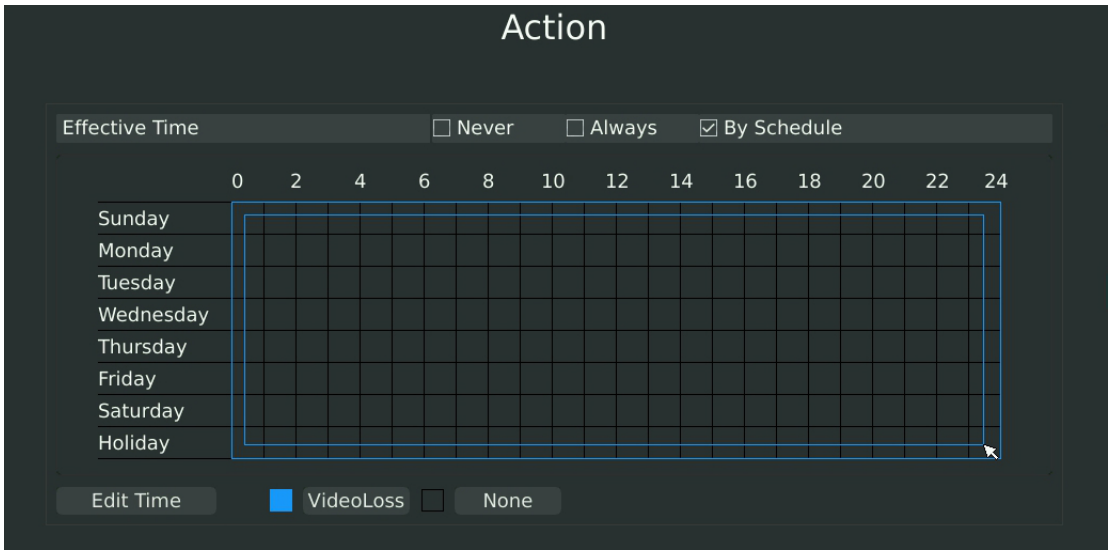
Step2.Select a desired channel and click [Edit] to configure video loss.



F-3.5.2

Step3.Select effective time to setup when you want to trigger actions once video loss is detected.

[Never]: Your NVR will not trigger any actions when [Never] button is checked. No matter the [Audible Warning] or [Email Linkage] checkboxes are checked or not.
[Always]: Your NVR will always trigger actions when [Always] button is checked. Please make sure [Audible Warning] or [Email Linkage] is checked.
[By Schedule]: You can drag the mouse to draw certain area in schedule setting zone, show as below:

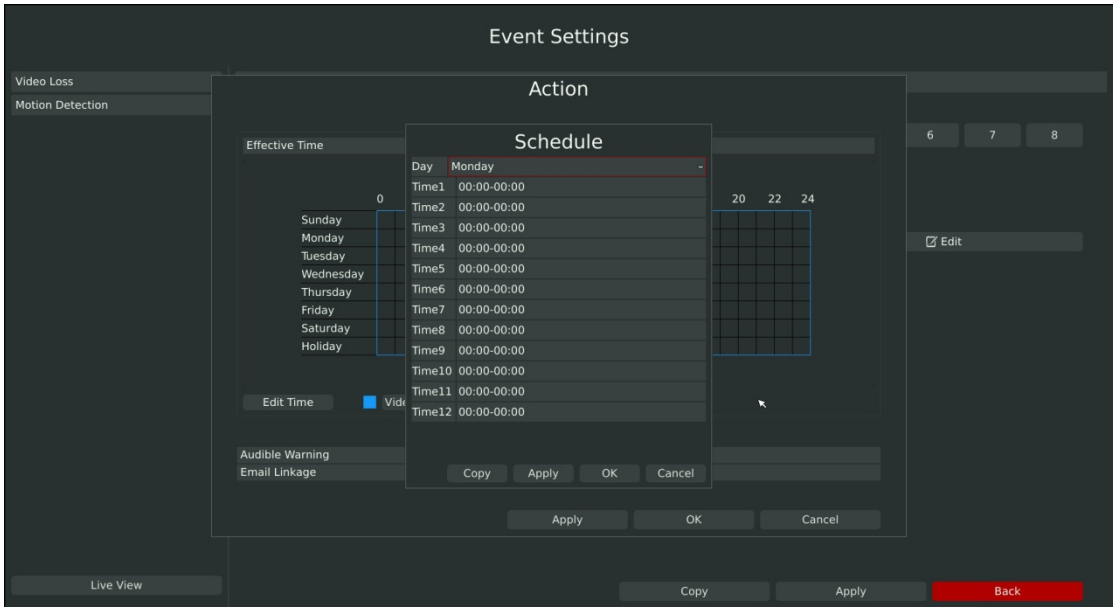


F-3.5.3

After dragging this will show as below:

F-3.5.4

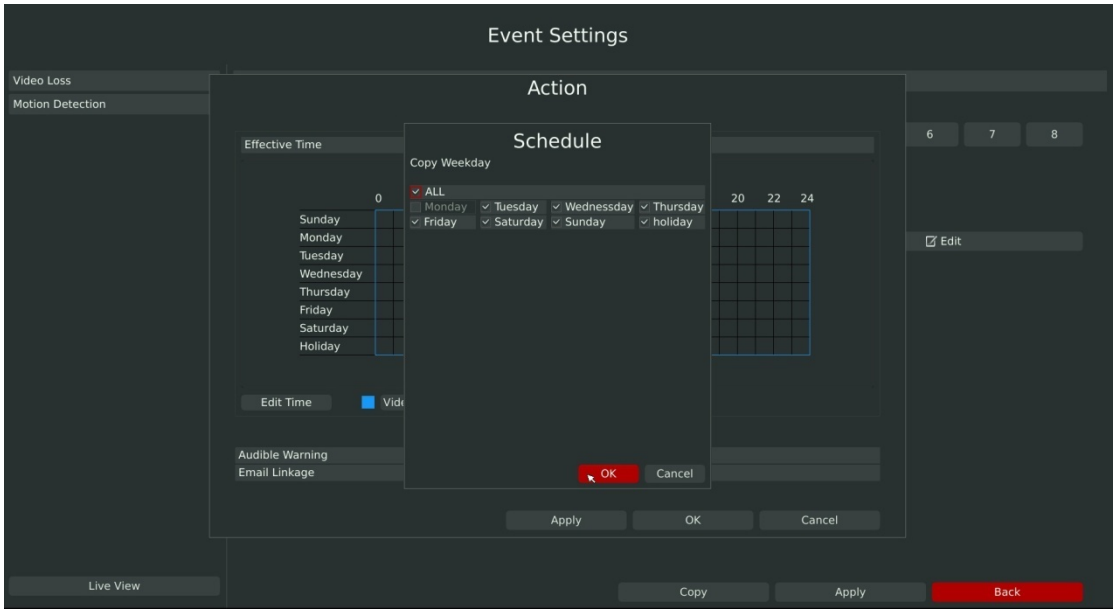
Or click [Edit Time] to set schedules. Schedule can be set for all week or any day of the week with up to 12 time periods per day. Video loss actions take effect in the scheduled period only.



F-3.5.5

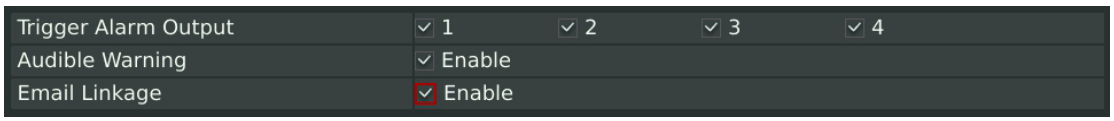
Note: Time periods cannot overlap with each other.

Step4.Click [Copy] to copy the video loss schedule to other weeks, and then click[OK].



F-3.5.6

Step5: Select actions you want when video loss is detected.



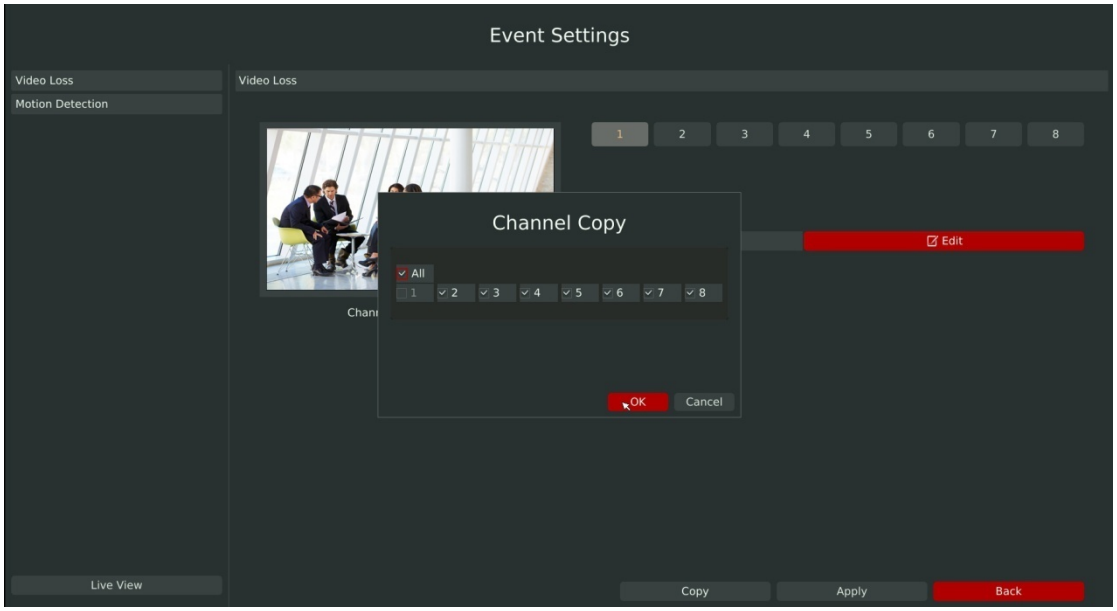
[Trigger Alarm Output]: Select whether trigger the alarm output or not when video loss is detected.

Audible Warning: Trigger an audible beep when video loss is detected

Email Linkage: Send video loss note to specified email address when video loss is detected. (Please refer to *3.8.2.4 Mail configuration* for mail address setting)

Note: These actions will only take response according to effective time you choose

Step6. Click [OK] or [Apply] to confirm the settings. Repeat above steps for other channels. Or click [Copy] to copy settings to other channels.

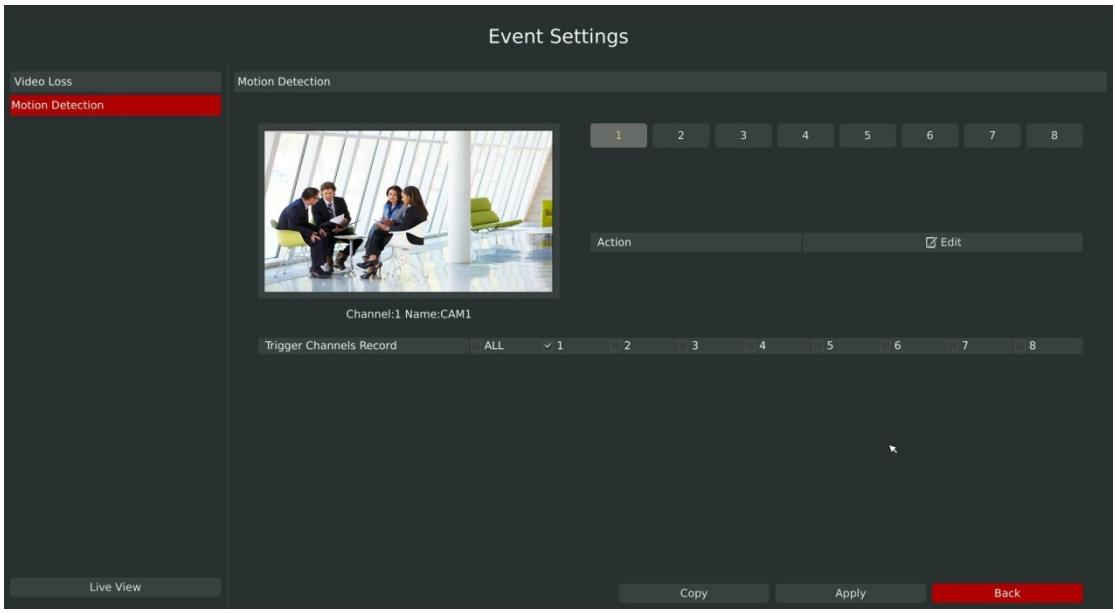


F-3.5.7

3.5.2 Motion Detection Setting

Your NVR can be setup to detect motion and trigger an action. Before configuration, please make sure your IP cameras have enable motion detection features.

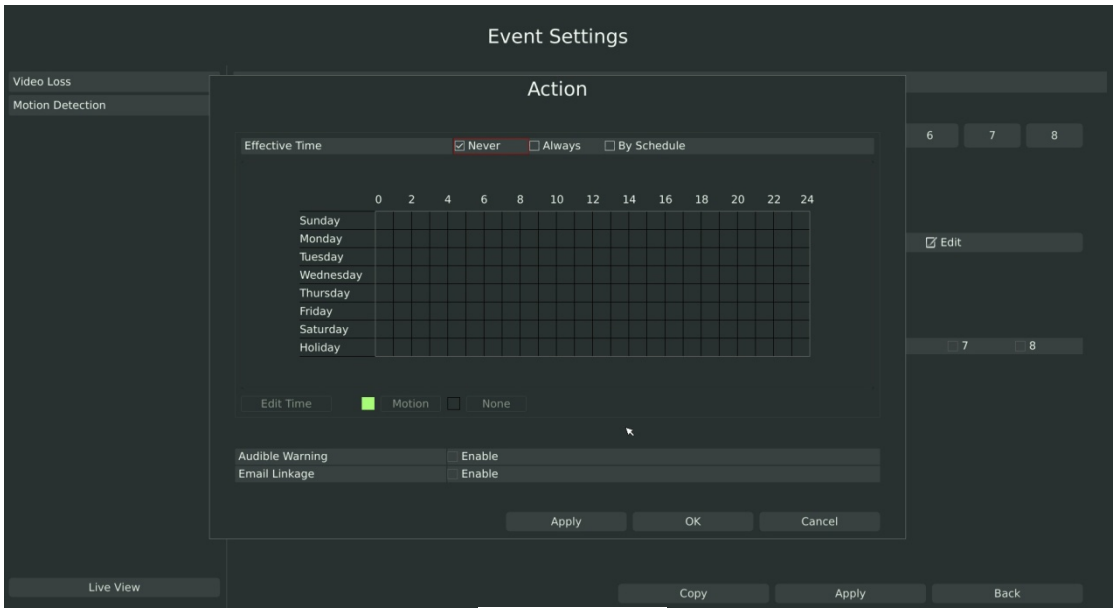
Step1.Enter motion detection setting interface by clicking Main Menu • Event • Motion Detection.



F-3.5.8

[Trigger Channels Record]: Select channels to trigger for recording when motion is detected by checking the checkboxes under the desired channels. Please make sure other channels has setup motion recording schedule.

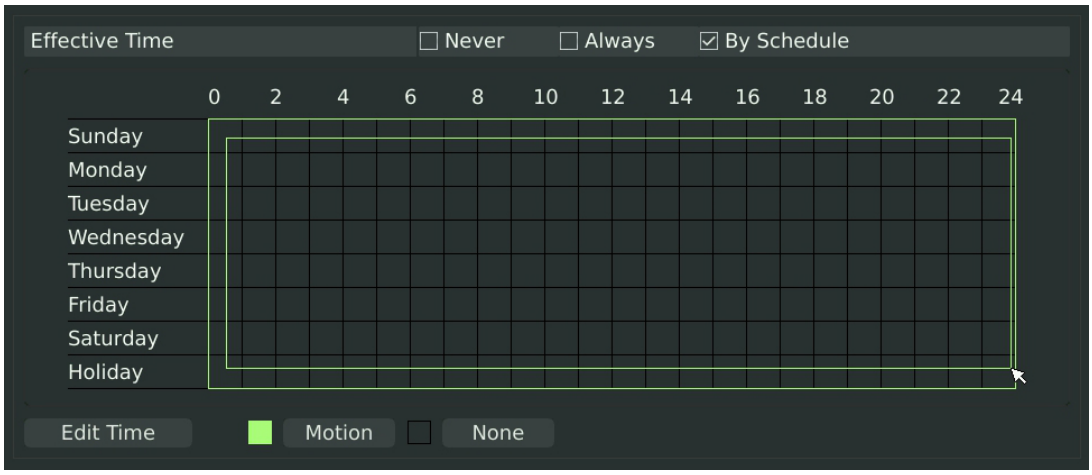
Step2. Select the desired channel and click [Edit] to configure motion detection.



F-3.5.9

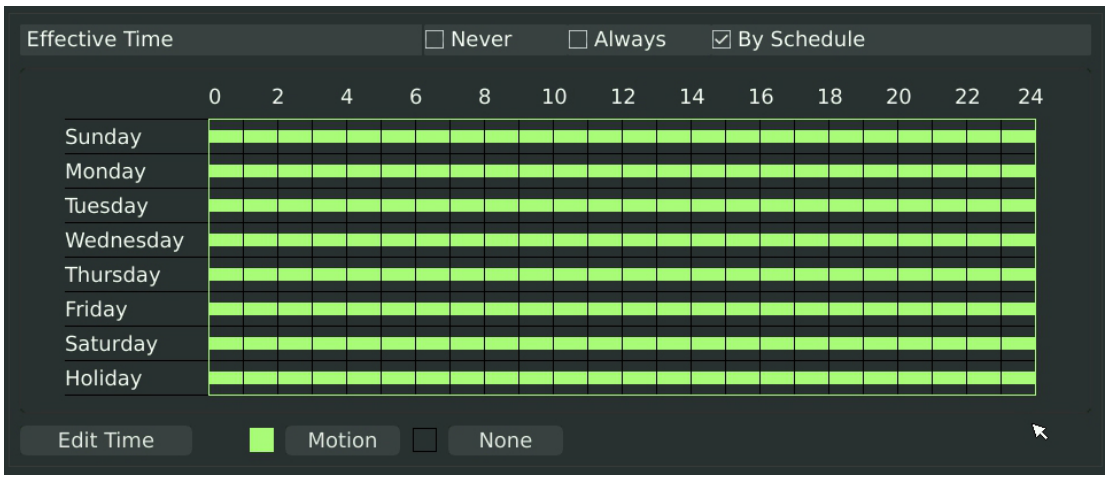
Step3. Select effective time to setup when you want to trigger actions once motion is detected.

[Never]: Your NVR will not trigger any actions when [Never] button is checked. No matter the [Audible Warning] or [Email Linkage] checkboxes are checked or not.
[Always]: Your NVR will always trigger actions when [Always] button is checked. Please make sure [Audible Warning] or [Email Linkage] is checked.
[By Schedule]: You can drag the mouse to draw certain area in schedule setting zone, show as below:



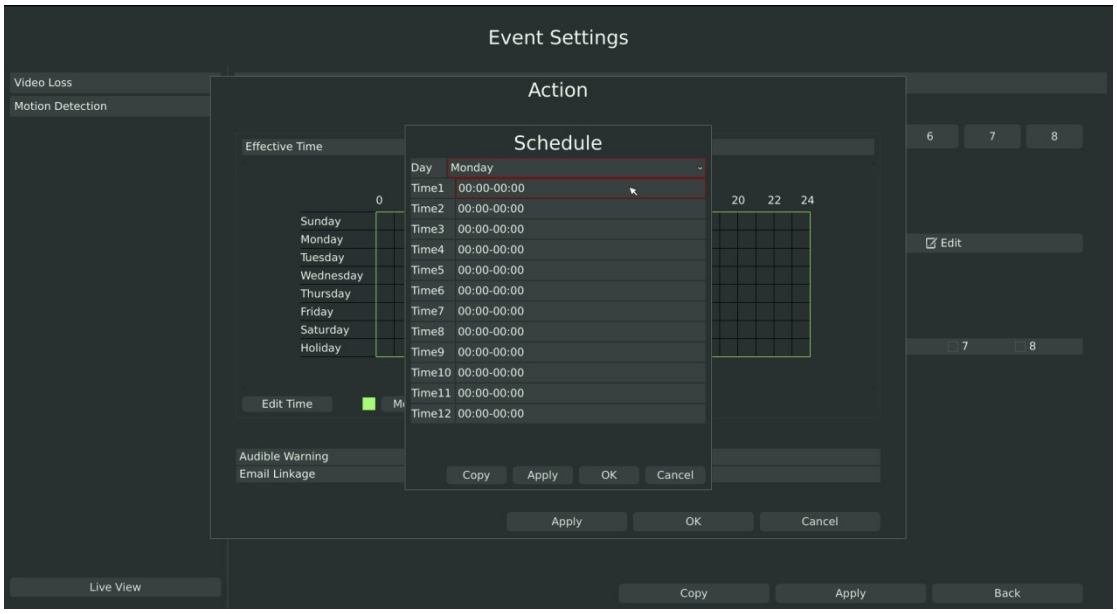
F-3.5.10

After dragging, this channel will show as below:



F-3.5.11

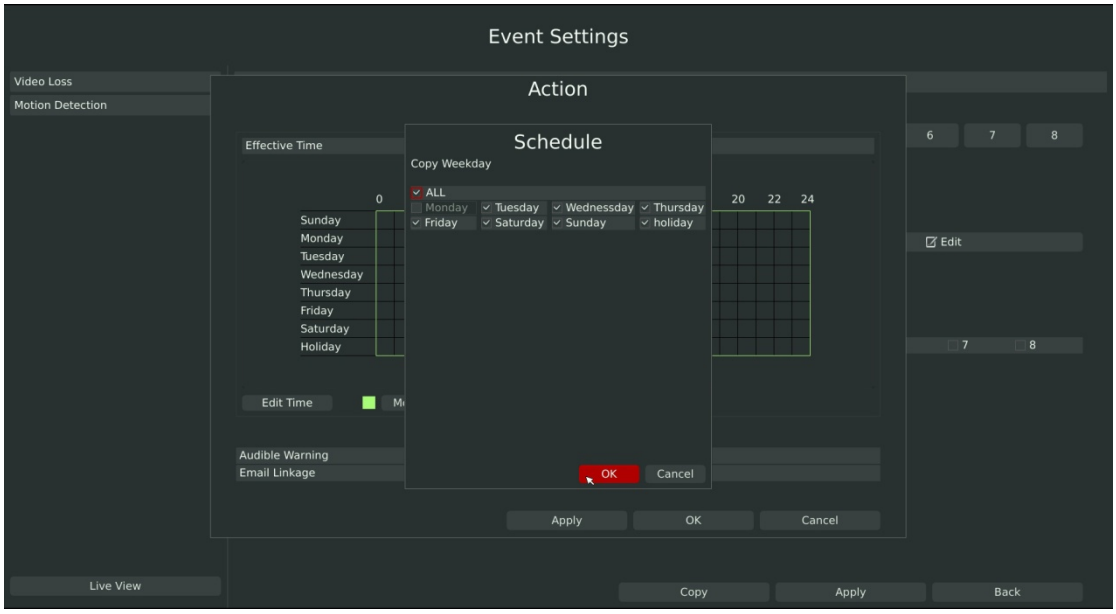
Or click [Edit Time] to setup schedules. Schedule can be set for all week or any day of the week with up to 12 time periods per day. Motion detection actions take effect in the scheduled period only.



F-3.5.12

Note: Time period cannot overlay with each other

Step4.Click [Copy] to copy the motion detection schedules to other weekdays.



F-3.5.13

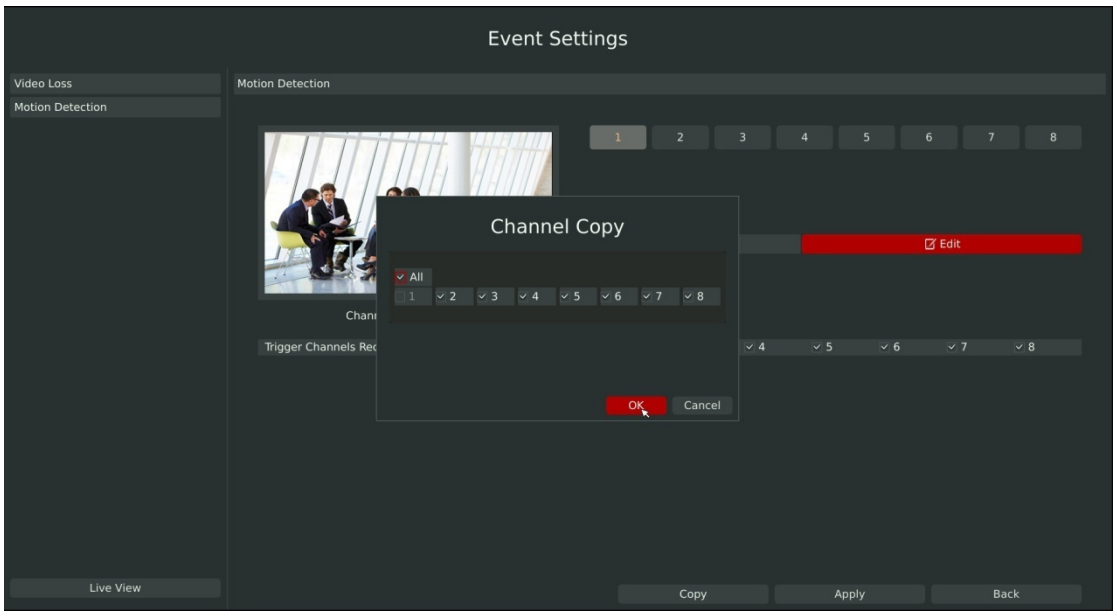
Step5. Select actions you want when motion is detected

Audible Warning	Enable
Email Linkage	Enable

[Audible Warning]: Trigger an audible beep when motion is detected
[Email Linkage]: Send motion detection note to specified email address when motion is detected. (Please refer to *3.8.2.4 Mail configuration* for mail address setting)

Note: These actions will only take response according to effective time you choose

Step6. Click [Apply] or [OK] to confirm settings. Repeat above steps to other channel. Or click [Copy] to copy settings to other channel.



F-3.5.14

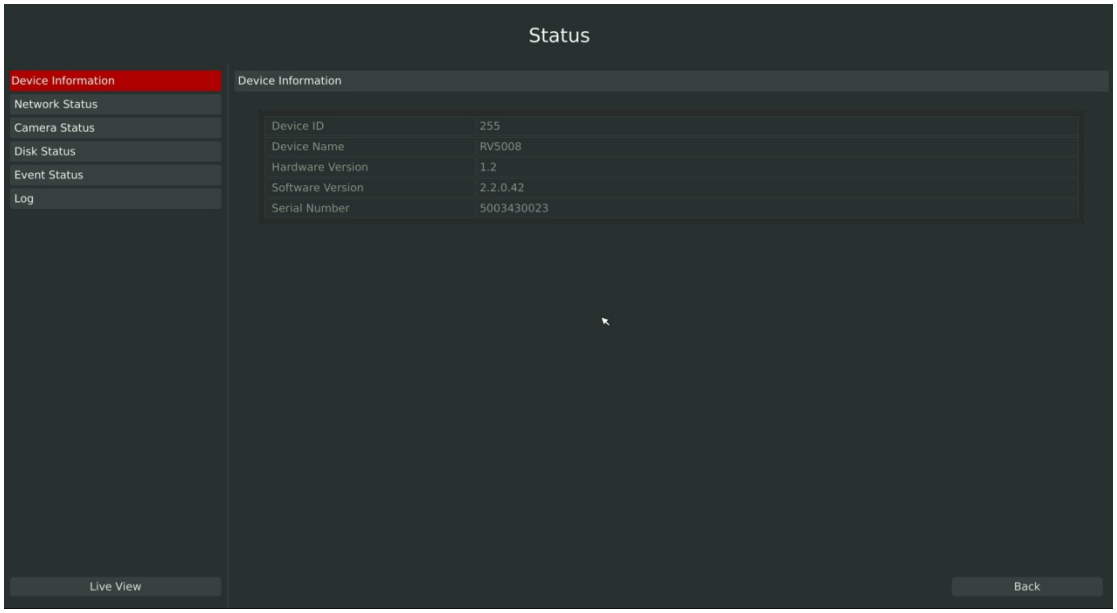
3.6 Status

You can have a quick view of the information of the device, network, camera, disk and event. This part is only for your rapid reference. If you want to make any configuration, please go to corresponding parts accordingly.

3.6.1 Device Information

Step: Enter Device information menu by clicking Main Menu à Status à Device Information

It will show you information in F-3.6.1, including: Device ID, Device Name, Hardware Version, Software Version, and Serial Number.

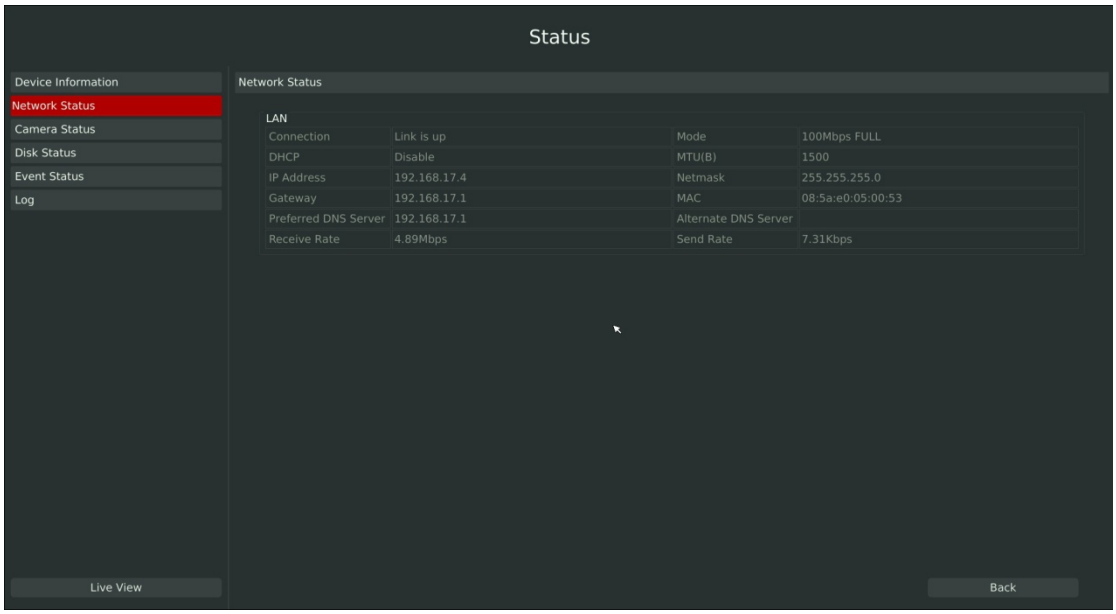


F-3.6.1

3.6.2 Network Status

Step: Enter Network Status menu by clicking Main Menu à Status à Network Status

It will show you information in F-3.6.2, including: Connection, Mode, DHCP, MTU(B), IP Address, Net mask, Gateway, MAC, Preferred DNS Server, Alternate DNS Server, Receive Rate, and Send Rate.

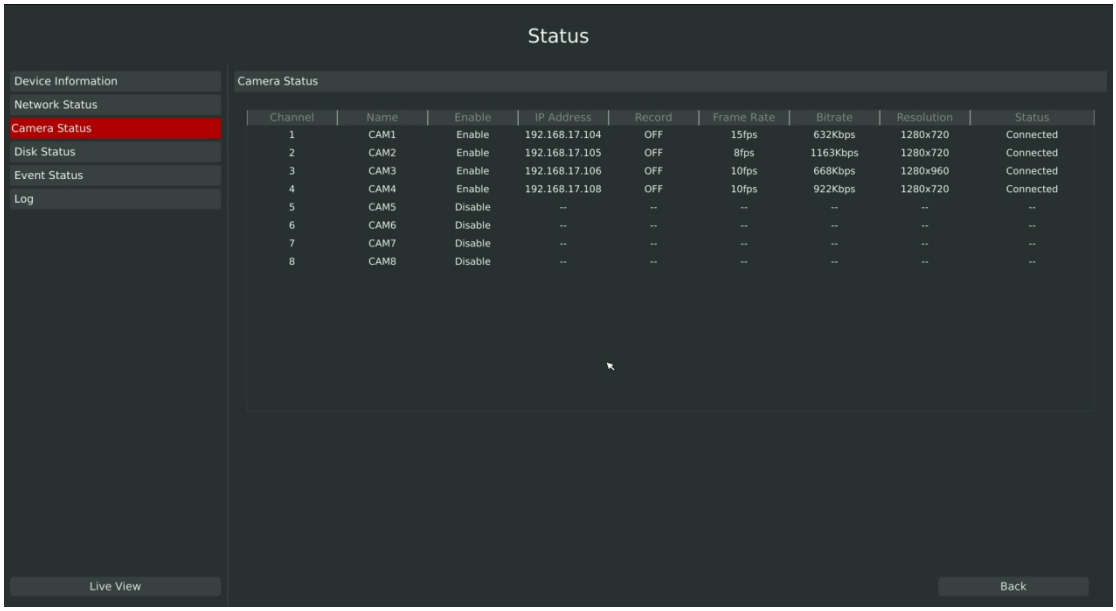


F-3.6.2

3.6.3 Camera Status

Step: Enter camera status menu by clicking Main Menu à Status à Camera Status

It will show you information in F-3.6.3, including: Channel, Name, Enable, IP Address, Record, Frame Rate, Bitrate, Resolution and State.

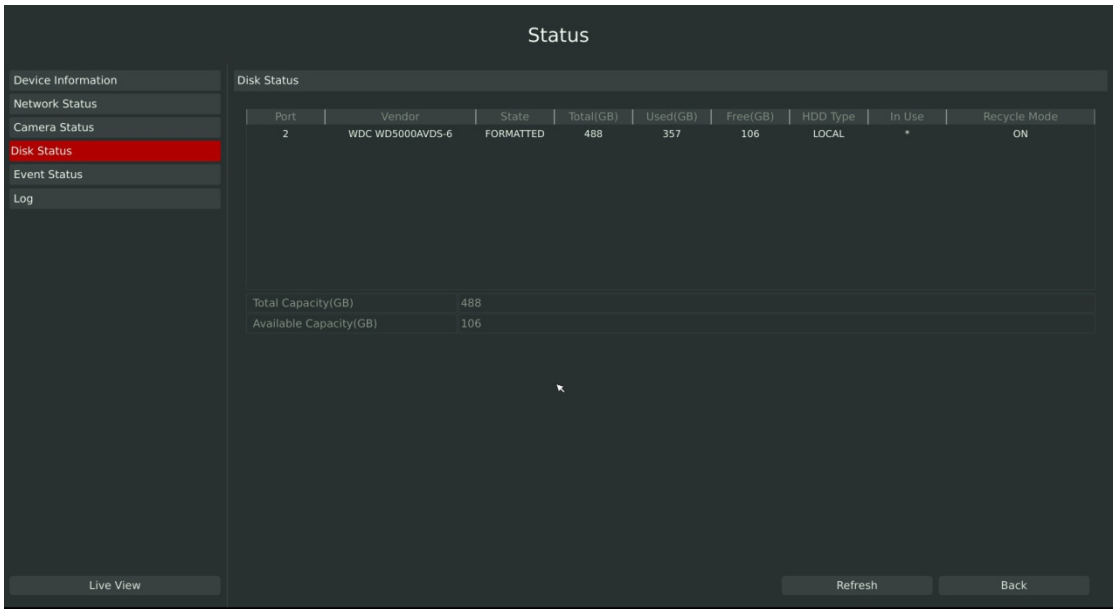


F-3.6.3

3.6.4 Disk Status

Step: Enter disk status menu by clicking Main Menu à Status à Disk Status

It will show you information in F-3.6.4, including: Port, Vendor, State, Total (GB), Free (GB), HDD Type, In Use, and Recycle Mode. You can see the Total Capacity (GB) and Available Capacity (GB) as below:



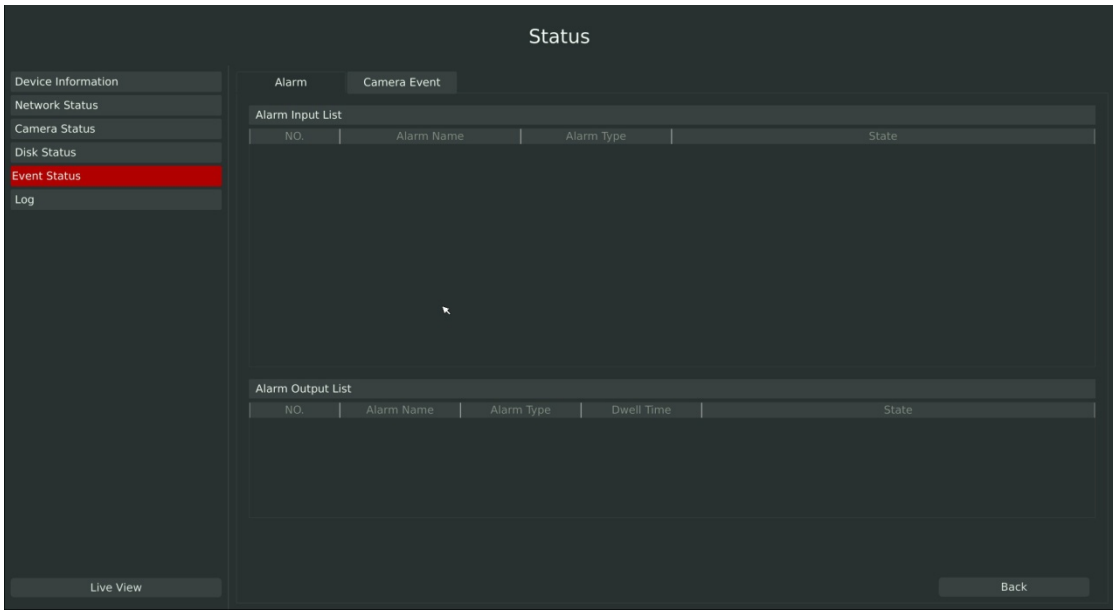
F-3.6.4

3.6.5 Event Status

3.6.5.1 Alarm Status

(Alarm status is only supported in RV5009/5016.)

Step: Enter alarm page by clicking Main Menu à Status à Event Status
It will show you the Alarm Input List in F-3.6.5.

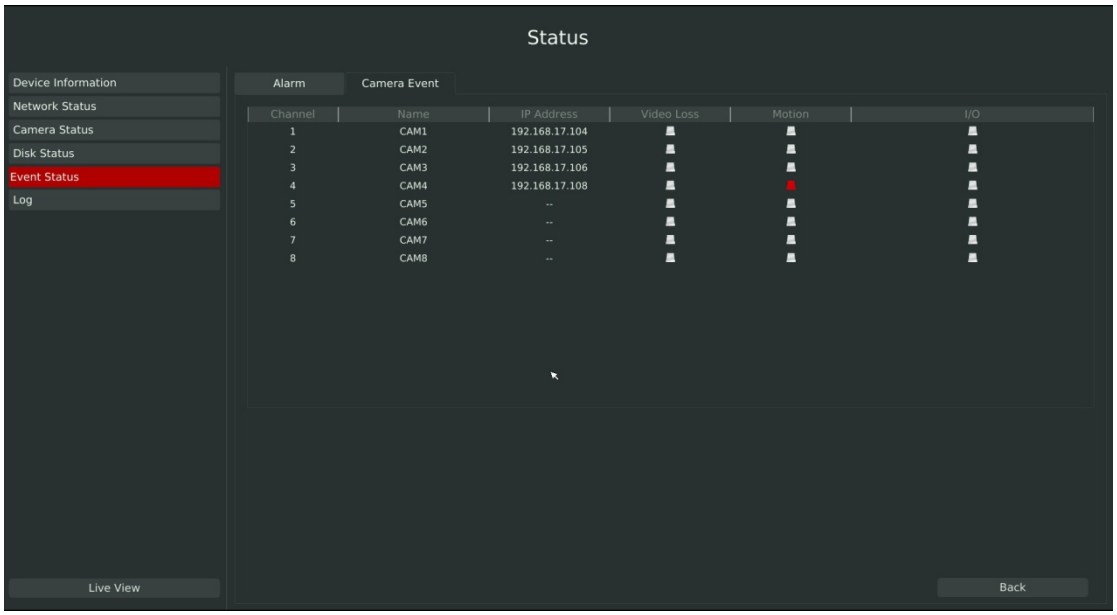


F-3.6.5

3.6.5.2 Camera Event Status

Step: Enter camera event page by clicking Main Menu à Status à Event Status.

It will show you the camera event status in F-3.6.6. If the shows in red, it means the corresponding project is active.

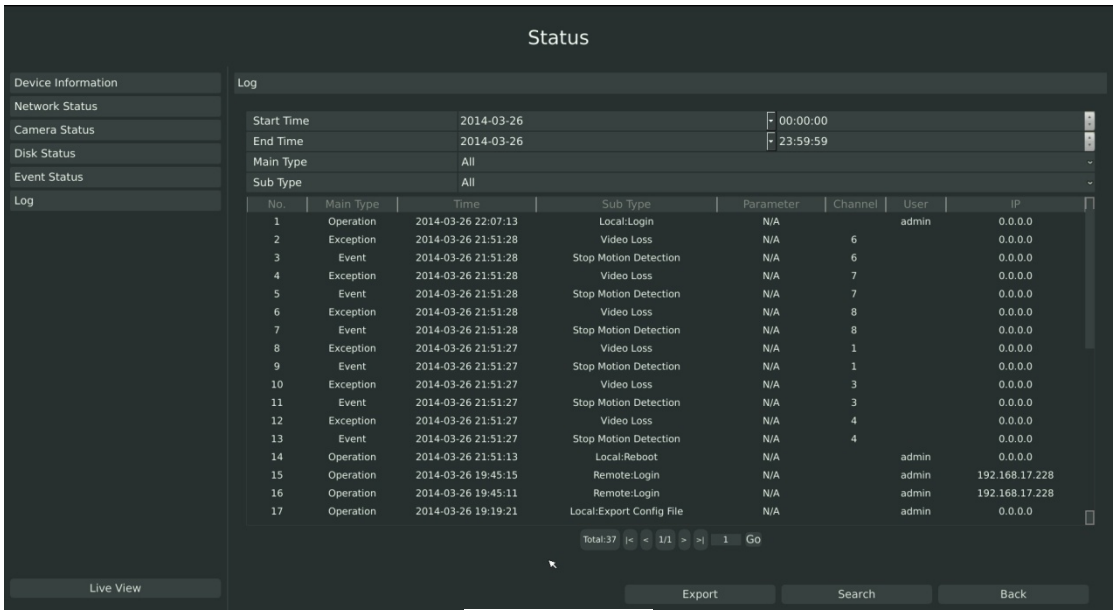


F-3.6.6

3.6.6 Log

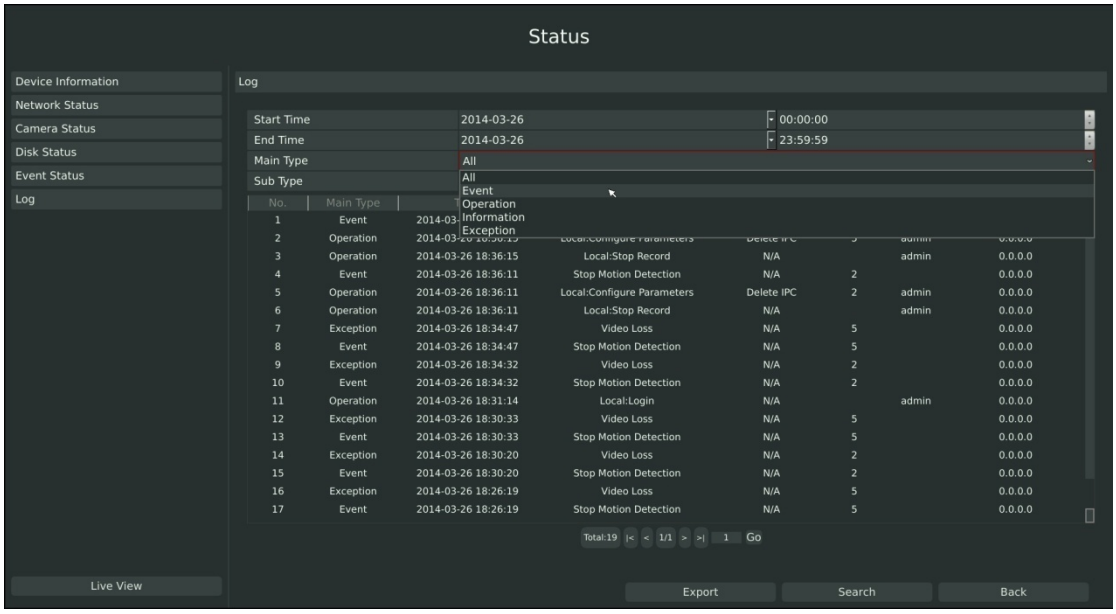
Check and export the operation history of NVR. The log is stored in HDD. Format the HDD, the log will be cleared.

Step1: Enter log page by clicking Main Menu à Status à Log.



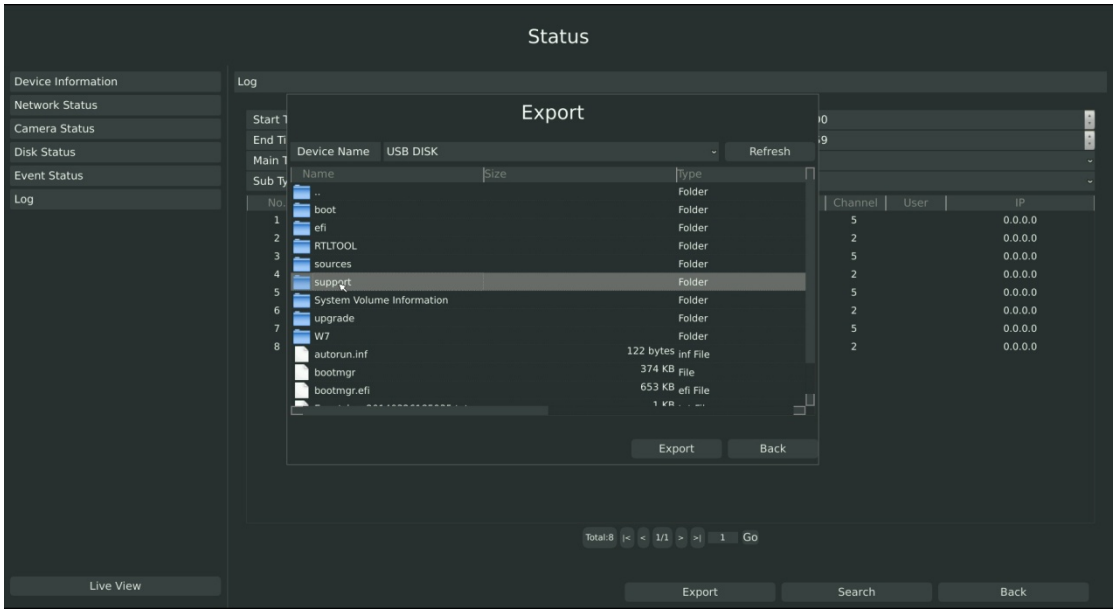
F-3.6.7

Step2: Set Start Time, End Time, Main Type and Sub Type, click search to search the log.



F-3.6.8

Step3: Click Export to load the log to external storage device like USB flash driver.



F-3.6.9

3.7 Live View Settings

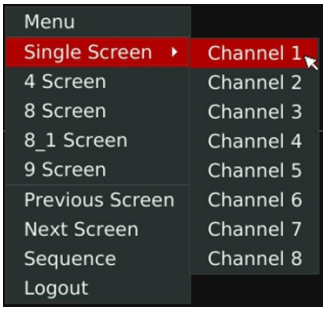
3.7.1 Live View

Watching a Live View

There are multiple icons on each channel displayed in live view mode, indicating the recording and alarm status of the channel.

Icons	Descriptions
	Indicates video loss or tampering alarm
	Indicates motion detection alarm
	Indicates the current channel is recording. The recording may have been started manually, from a schedule, motion detection, alarm, and/or triggered from motion and alarm.
	Indicates exception alarm and recording.

Use the Right Button of the Mouse in Live View



F-3.7.1

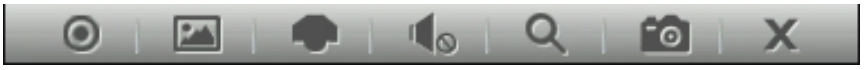
Item	Description
Menu	Enter main menu
Single Screen	The channel chosen will spread the whole screen. You could also reveal this function by double clicking the channel.
Sub Screen Ctrl	Switch to sub screen to operate.
Previous Screen	Switch to the previous screen
Next Screen	Switch to the next screen
Sequence	Enable single/multi screen cruise in live view mode
Sub Sequence	Enable single/multi screen cruise in AUX live view mode
Logout	Click it to logout current user account.

Quick Operation for Live View

Enter the live view interface; left click the channel, the quick menu will appear.

Quick menu operations include playback, recording manually, snapshoot, PTZ, zoom, and image configuration.

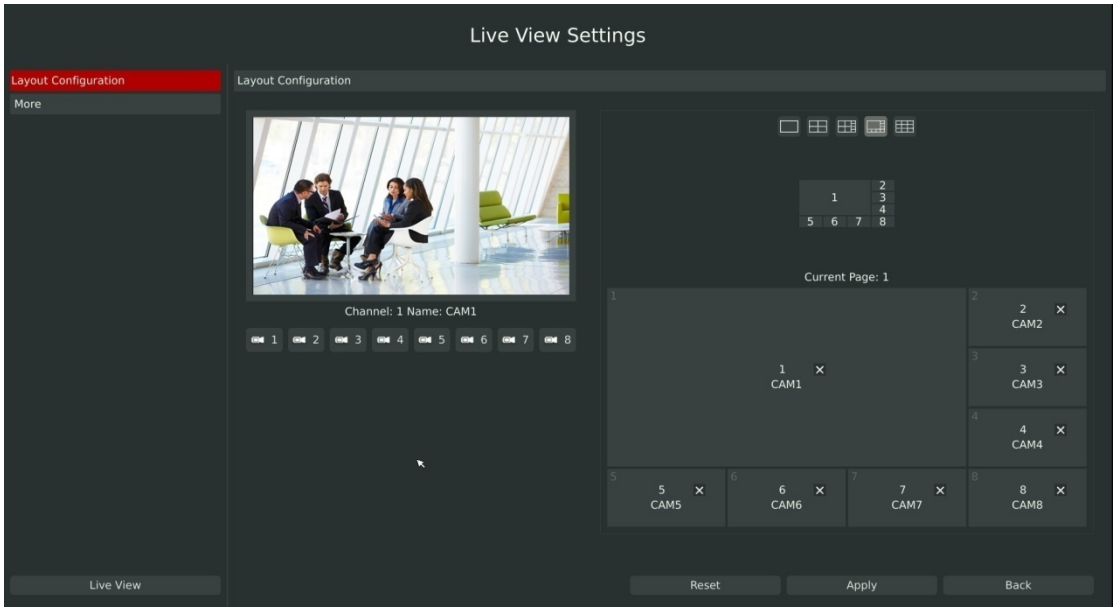
Quick Menu Instructions for Main Output Live View



Icon	Description	Icon	Description	Icon	description
	Manually recording		Image configure		PTZ Control
	Sound on/off		Digital zoom		Snapshoot by manually
	Close				

3.7.2 Layout Configuration

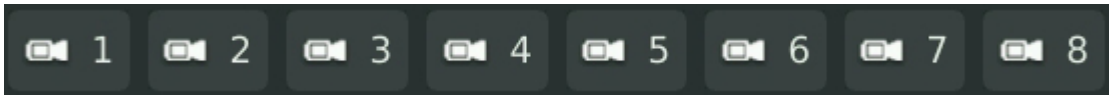
Step1: Enter layout configuration menu by clicking Main Menu à Live View à Layout configuration



F-3.7.2

You can choose single screen/4/ 8 /8-1/9 screens for layout configuration according to your needs and preferences.

Step2. Click ✕ to close a channel, or click a desired channel (shown F-3.7.3) to add in and then click "Apply" to confirm settings. Click "Reset" to reset the layout.

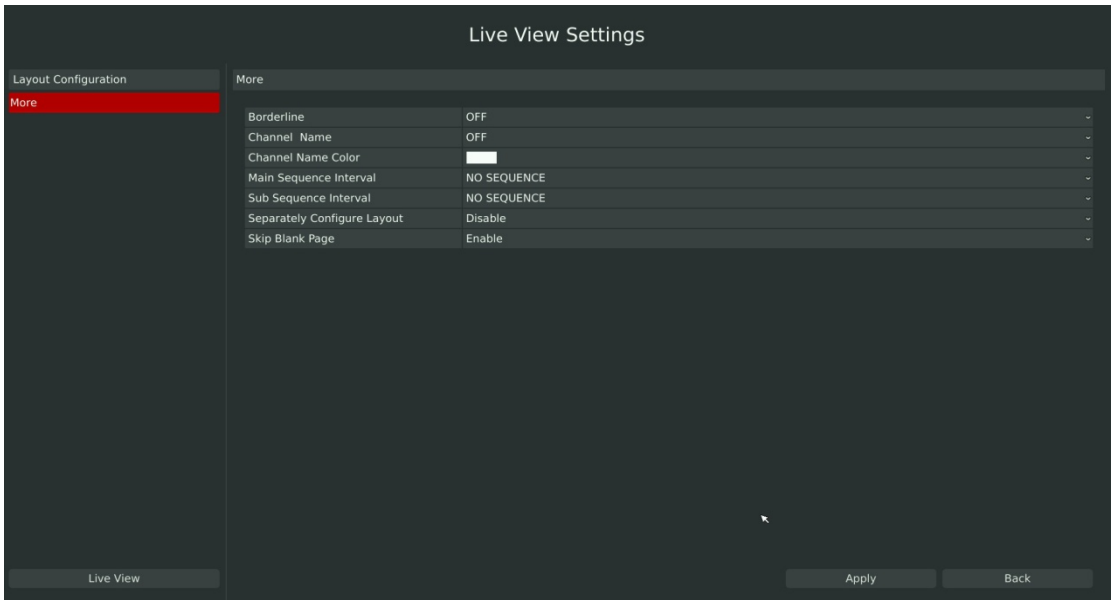


F-3.7.3

3.7.3 More Settings

Live View Parameters Settings

Step: Enter the more setting interface by clicking Main Menu à Live View à More



F-3.7.4

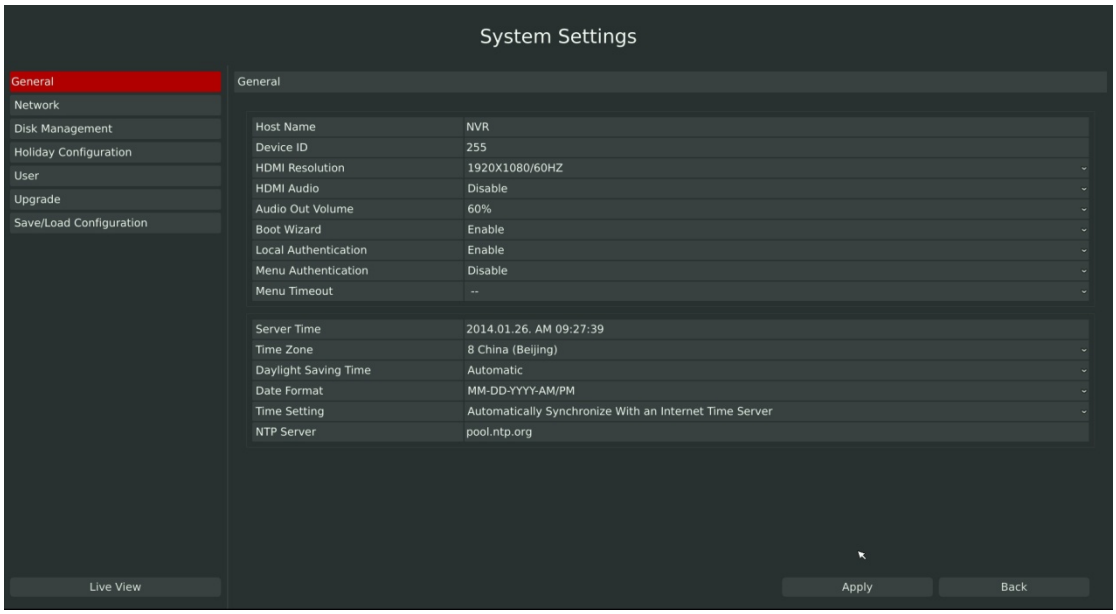
Item	Description
Borderline	Borderline ON/OFF
Channel Name	Display the channel name
Channel Name Color	To change the color of the channel name
Sequence Interval	Set sequence interval in live view mode
Separately Configure Layout	To configure channel order of all layouts respectively
Skip Blank Page	Skip blank page in sequence mode

3.8 System Settings

3.8.1 General Setting

Step: Enter general menu by clicking Main Menu à System Settings à General

To setup the general parameters of NVR, including modify the host name, device ID, select resolution, and set system time manually, etc.


System Settings
General
Network
Disk Management
Holiday Configuration
User
Upgrade
Save/Load Configuration
Live View
General
Host Name
NVR
Device ID
255
HDMI Resolution
1920X1080/60HZ
HDMI Audio
Disable
Audio Out Volume
60%
Boot Wizard
Enable
Local Authentication
Enable
Menu Authentication
Disable
Menu Timeout
--
Server Time
2014.01.26. AM 09:27:39
Time Zone
8 China (Beijing)
Daylight Saving Time
Automatic
Date Format
MM-DD-YYYY-AM/PM
Time Setting
Automatically Synchronize With an Internet Time Server
NTP Server
pool.ntp.org
Apply
Back

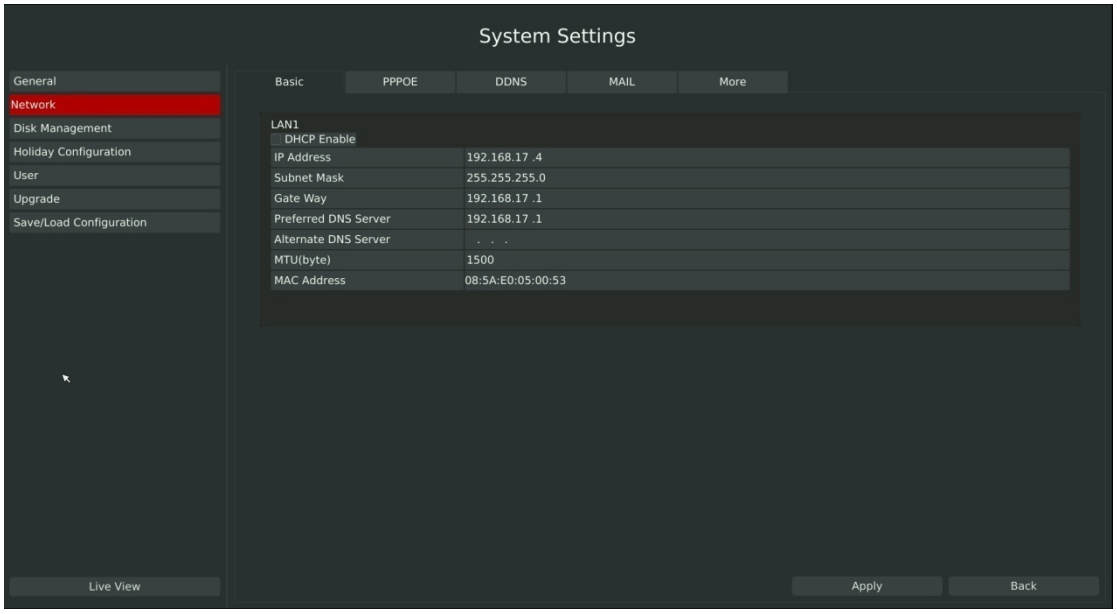
F-3.8.1

3.8.2 Network Settings

3.8.2.1 Basic Configuration

Step: Enter the network setting menu to set the network parameters by clicking Main Menu à System Settings à Network, select "Basic" page

Basic configuration includes working mode, IP address, subnet mask, gateway, MTU, DNS server, etc.



F-3.8.2

Notes:

1. Check the DHCP checkbox if there has a DHCP server running in networks.

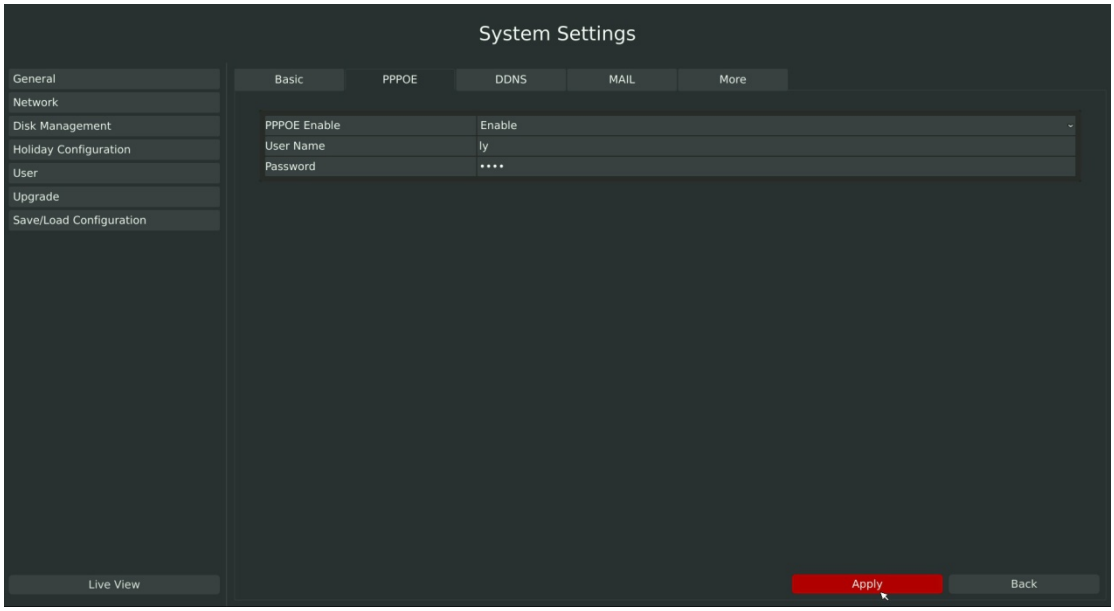
2. The valid range of MTU is 500~9676.

3. Do not input an IP address conflict with another device.

3.8.2.2 PPPOE Configuration

Step: Enter PPPOE menu by clicking Main Menu à System Settings à Network. Select "PPPOE" page

Check the PPPoE checkbox to enable the feature, and then input user name, password and confirm password for PPPoE access.



F-3.8.3

Note:

PPPoE user name and password can be obtained from your service provider. Once the setup is completed, a connected status will be shown.

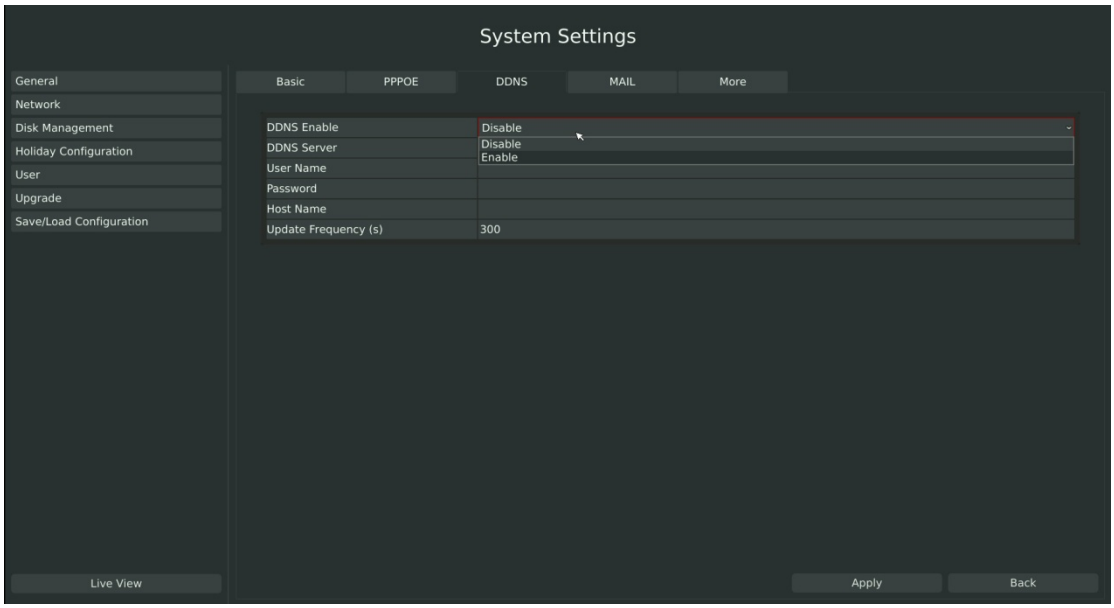
3.8.2.3 DDNS Configuration

If your NVR is setup to use PPPoE to connect public network, you may need to use DDNS (Dynamic Domain Name System) to solve the problems from dynamic IP address.

Step:Enter DDNS configuration menu by clicking Main Menu à System Settings à Network, Select "DDNS" page

Check the DDNS checkbox to enable the feature. Select "DDNS Server", and input username, password and host name, and then confirm.
Click [Apply] for application.

Note: "host name" can use letters, figures and hyphen (-), and must begin with letters.



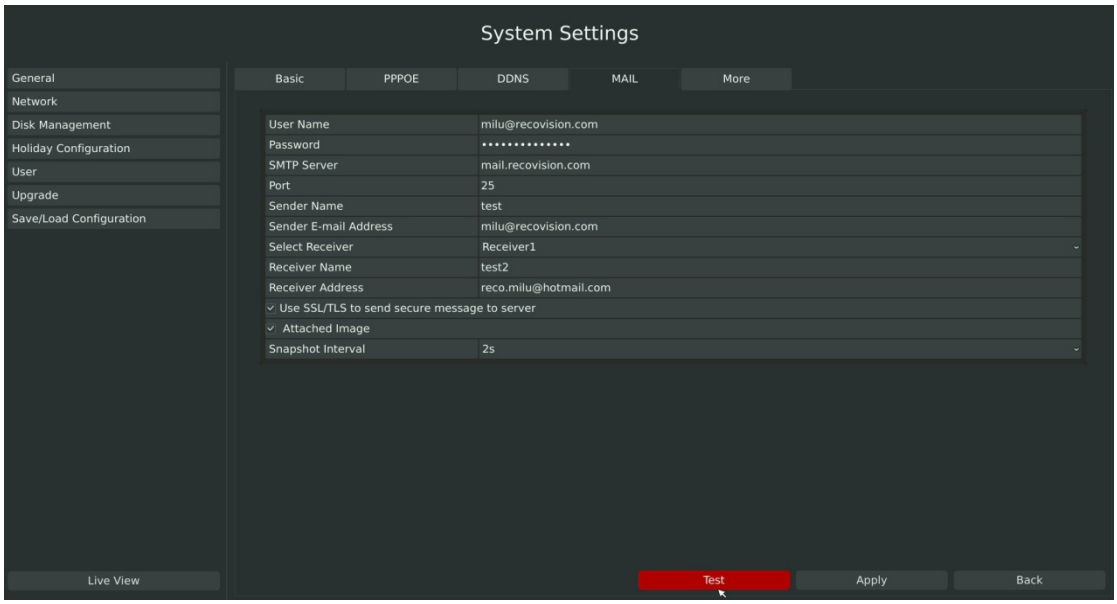
F-3.8.4

3.8.2.4 MAIL Configuration

Check if the SMTP port can be set or not. Please enable SSL/TLS according to actual mailbox. (Some SMTP server needs to secure connection)

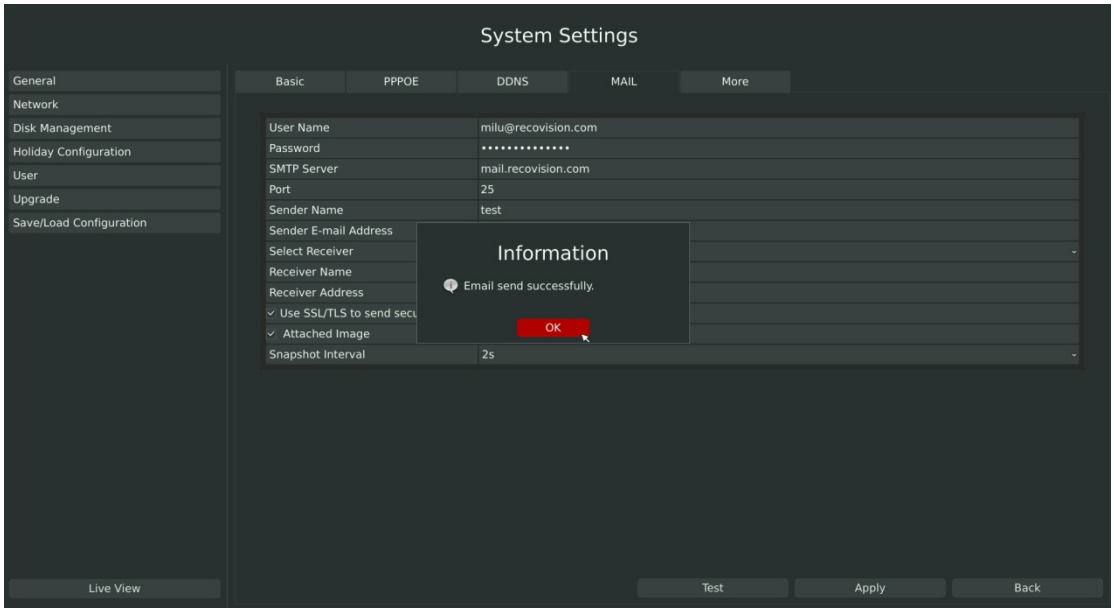
Steps: Enter Mail configuration page by clicking Main Menu à System Settings à Network • Mail

Set the Sender E-mail Address, User Name, Password, and SMTP Server.



F-3.8.5

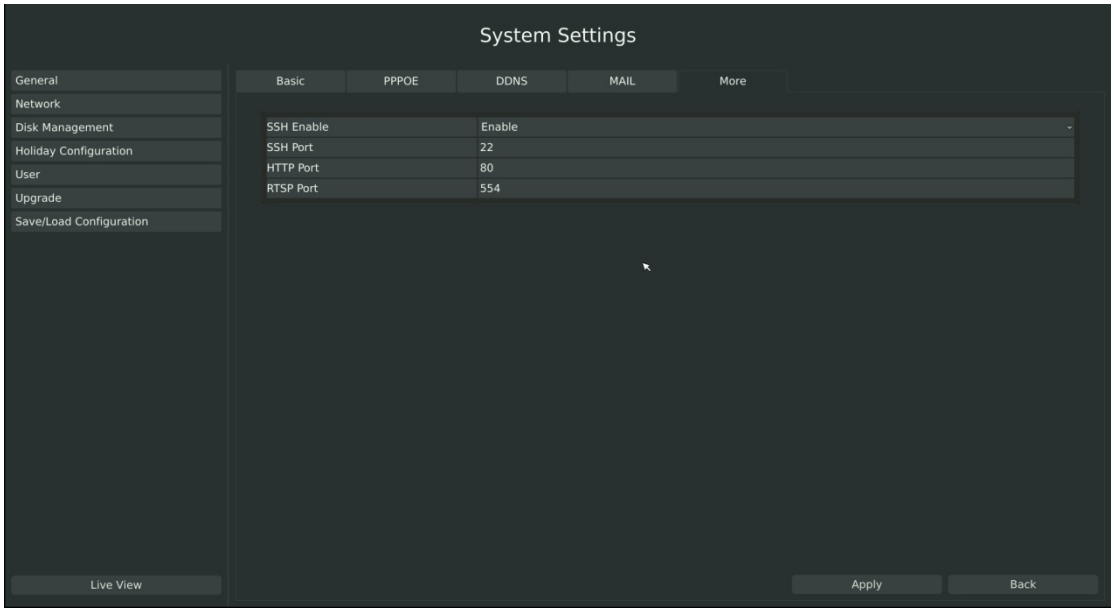
Select [Test] to check if the Mail function is workable.



F-3.8.6

3.8.2.5 More

Step: Enter More configuration page by clicking Main Menu à System Settings à Network • More



F-3.8.7

SSH Port Setting

Secure Shell (SSH) has many functions; it can replace Telnet, and also provides a secure channel for FTP, POP, even for PPP.

1. Check the SSH Enable checkbox to enable the feature.
2. Please modify SSH ports according to actual application.

Note: The default SSH port is 22.

HTTP Port Setting

The default HTTP port is 80. Please modify HTTP ports according to actual application.

Notes:

1. The default HTTP port for IE browser is 80.

2. HTTP port is used for remote network access.

RTSP Port Setting

Real Time Streaming Protocol (RTSP) is an application layer protocol in TCP/IP protocol system. The default RTSP port is 554. Please modify RTSP port according to actual application.

Note:

1. RTSP port is used for remote network live view.

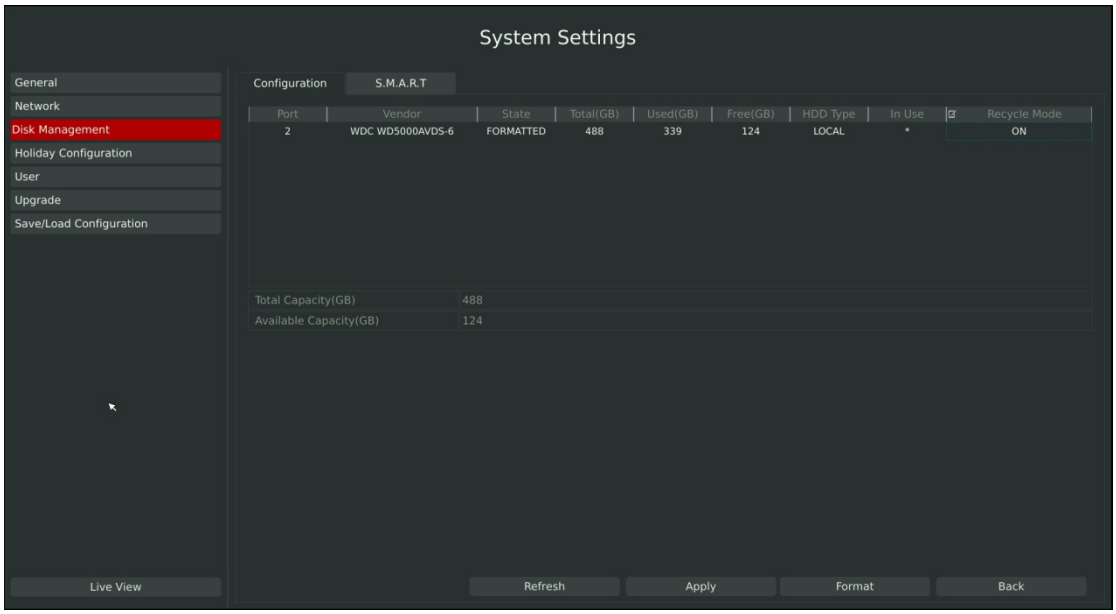
2. RTSP port valid range is 554 or 1024~65535.

3.8.3 Disk Management

3.8.3.1 Disk Configuration

Step: Enter disk configuration menu by clicking Main Menu à System Settings à Disk Management • Configuration

Configuration page contains the basic information of the disk, see F-3.8.8. Select a disk and click [Format] to format the disk.


System Settings
General
Network
Disk Management
Holiday Configuration
User
Upgrade
Save/Load Configuration
Configuration
S.M.A.R.T
Port
Vendor
State
Total(GB)
Used(GB)
Free(GB)
HDD Type
In Use
Recycle Mode
2
WDC WD5000AVDS-6
FORMATTED
488
339
124
LOCAL
*
ON
Total Capacity(GB)
488
Available Capacity(GB)
124
Live View
Refresh
Apply
Format
Back

F-3.8.8

3.8.3.2 S.M.A.R.T Detection

S.M.A.R.T detection is a monitoring system of HDD that detects and reports on various indicators of anticipating failures of HDD.

Step: Enter S.M.A.R.T configure page by clicking Main Menu à System Settings à Disk Management • S.M.A.R.T

You can command S.M.A.R.T self-checking function to check the HDD status.
Select “Test type”, and click “apply” for S.M.A.R.T detection.

F-3.8.9

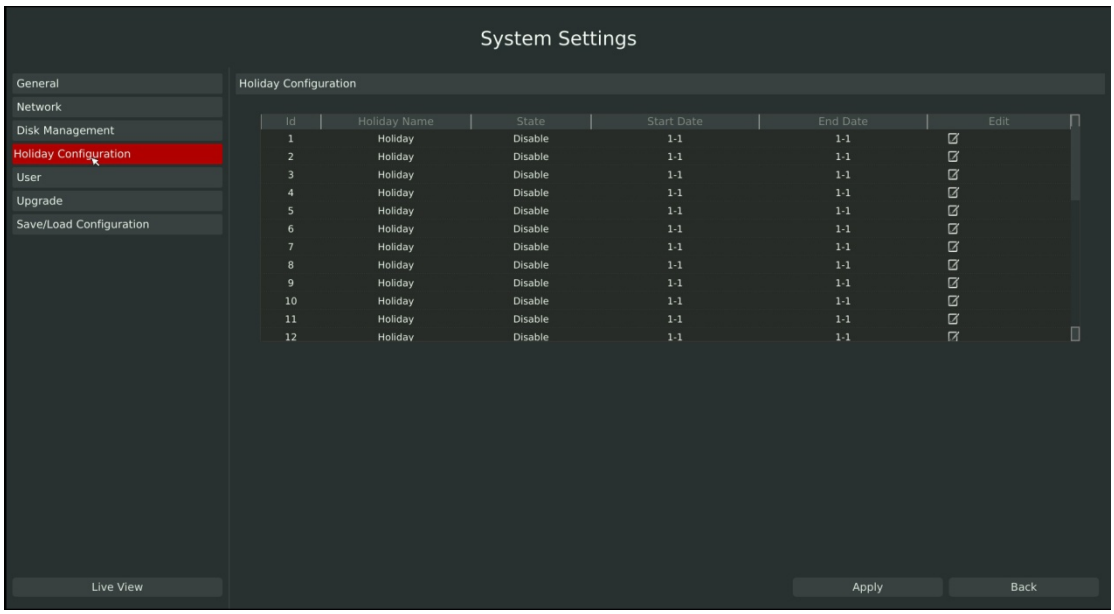
Note:

1. **Test type has “fast” and “full” options.**
2. **Test Status can be“status good”, “status bad” and “bad tracks exist”.**
3. **Test result can be“passed” or “failed”.**

3.8.4 Holiday Configuration

It can configure the record or image capture schedule for holidays of the current year.

Step1.Enter holiday setting menu by clicking System Setting • Holiday Configuration.

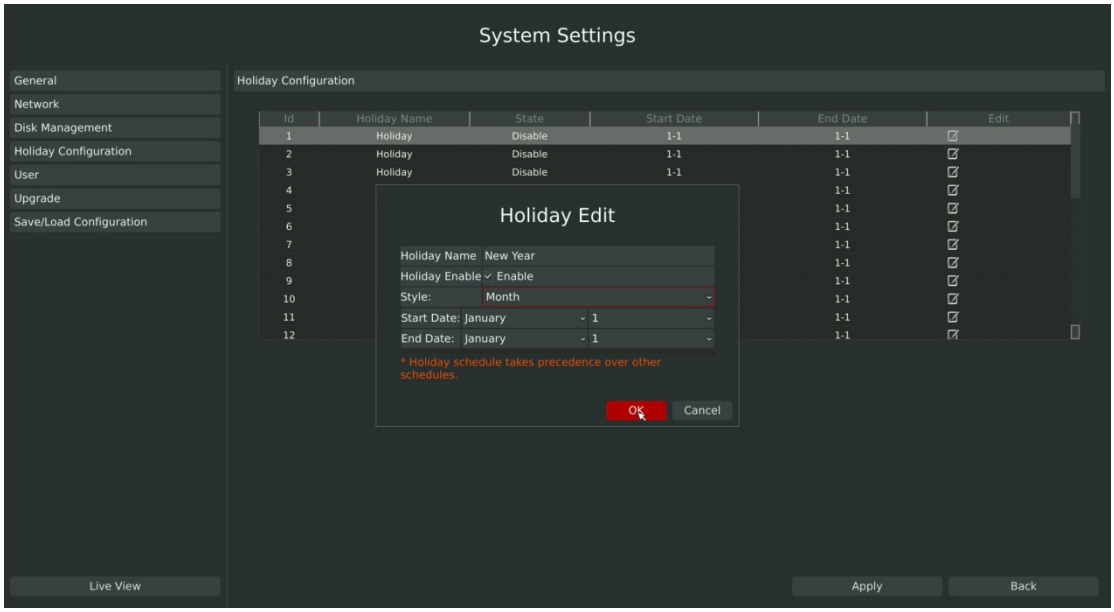


F-3.8.10

Step2.Edit the holiday schedule

Click to open holiday configuration page to modify holiday name, check the ‘Holiday Enable’ checkbox, and then select [style] to setup Start/End date. Then click [OK] to save the configuration and return to holiday configuration page. Click [Apply] to confirm settings.

Note: There are Month, Week, and Date in “Style” mode.



F-3.8.11

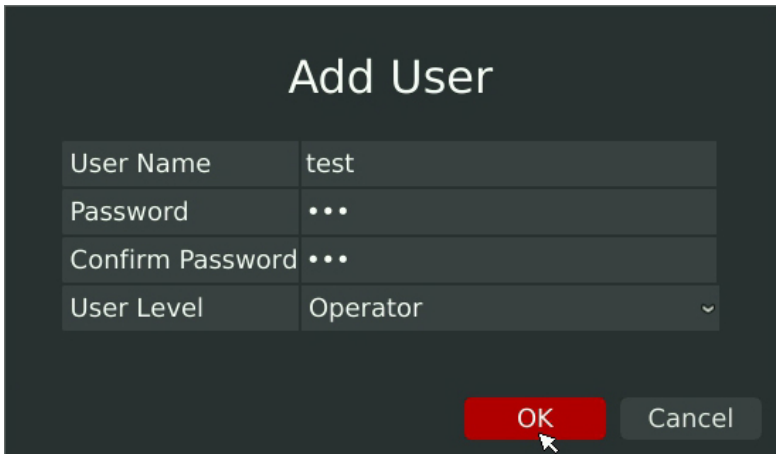
3.8.5 User Account Settings

By default, your NVR comes with the user name: “admin” and the password: “123456”. The administrator has the authority to add or delete a user account and configure parameters for the user.

Add New User

Step1: Enter user setting menu by clicking Main Menu à System Settings à User

Click [Add] to enter add user menu, input information for the new user, select user level and click [OK].



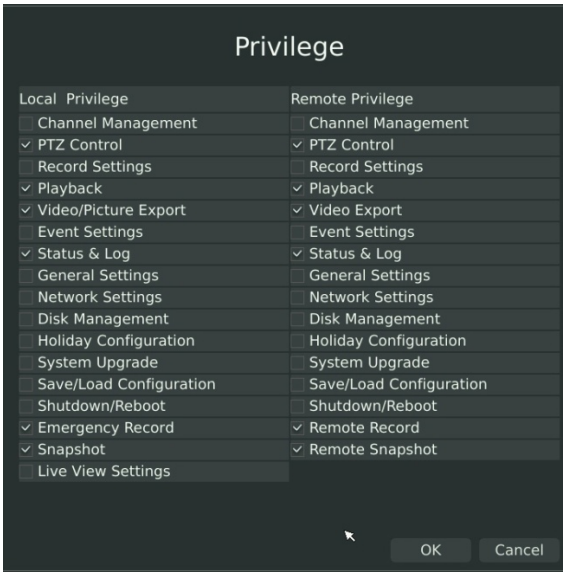
F-3.8.12

Note:

User name can be comprised of letters and figures. The user level is separated into User and Operator with different authority.

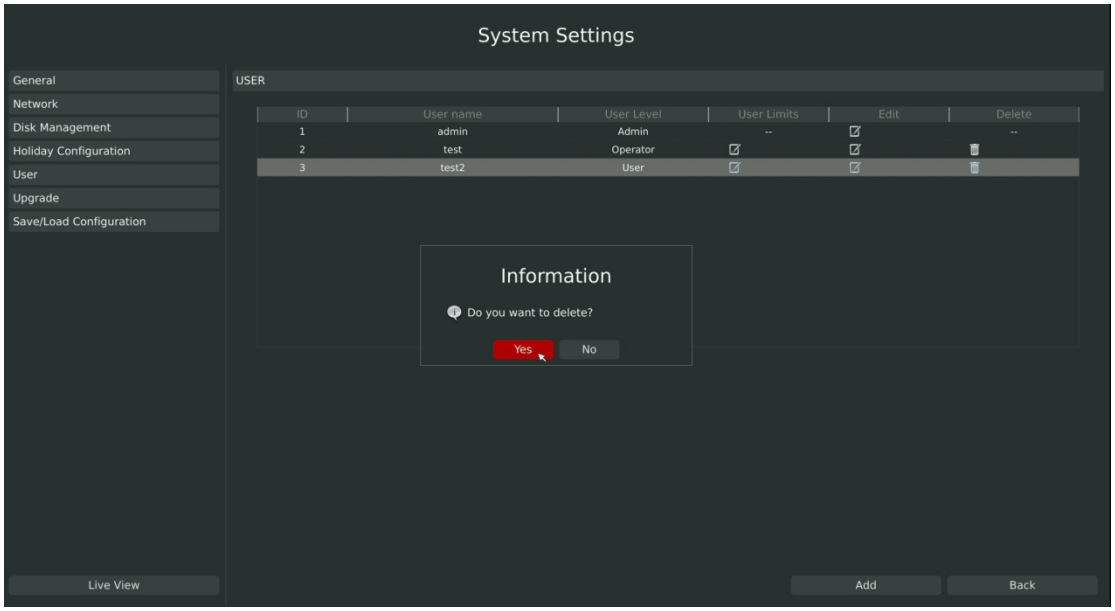
Step2: Set user privileges

Select the user that has been added and click [limit] button to enter user privilege menu.



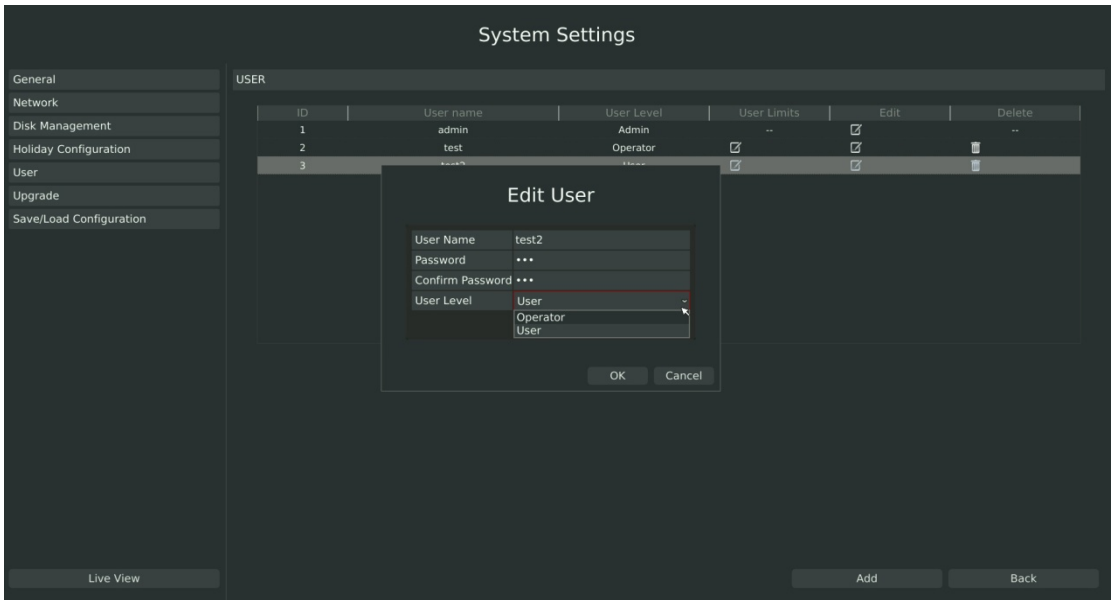
F-3.8.13

Step3. Click to delete a user.



F-3.8.14

Step4. Click to edit a user.

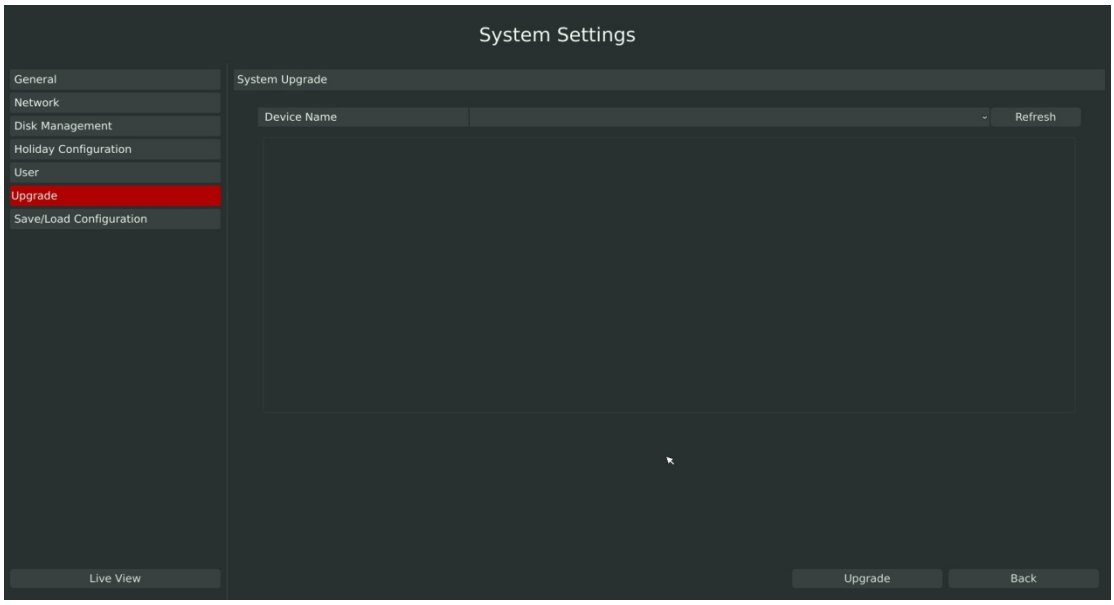

System Settings
General
Network
Disk Management
Holiday Configuration
User
Upgrade
Save/Load Configuration
USER
ID
User name
User Level
User Limits
Edit
Delete
1
admin
Admin
--
--
2
test
Operator
3
Edit User
User Name
test2
Password
Confirm Password
User Level
User
Operator
User
OK
Cancel
Live View
Add
Back

F-3.8.15

3.8.6 Upgrade

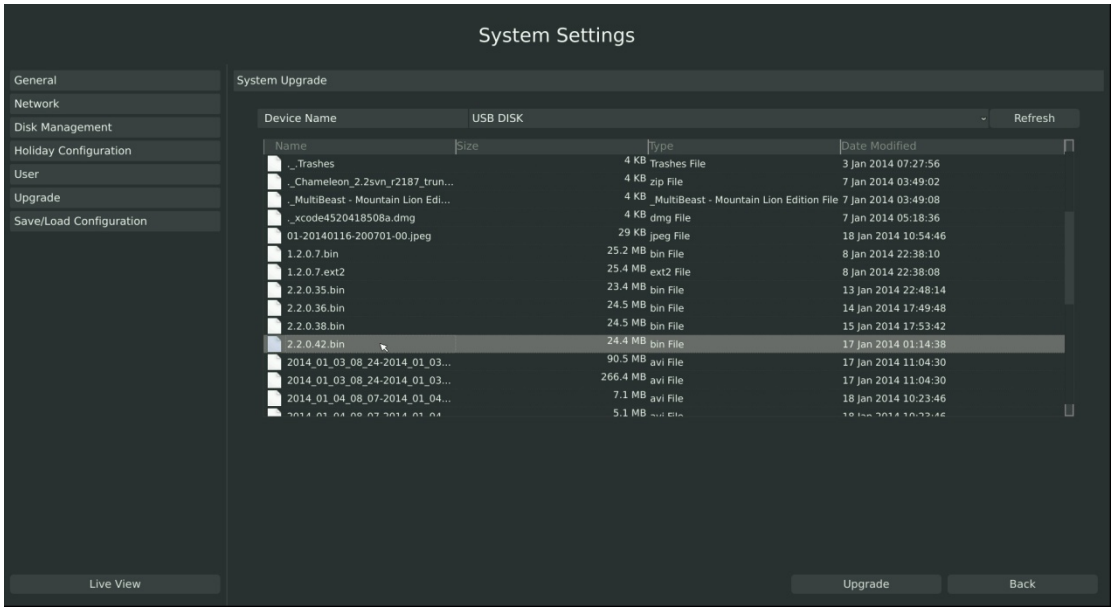
Your NVR supports firmware upgrade.

Step1.Enter upgrade menu by clicking Main Menu à System Settings à Upgrade



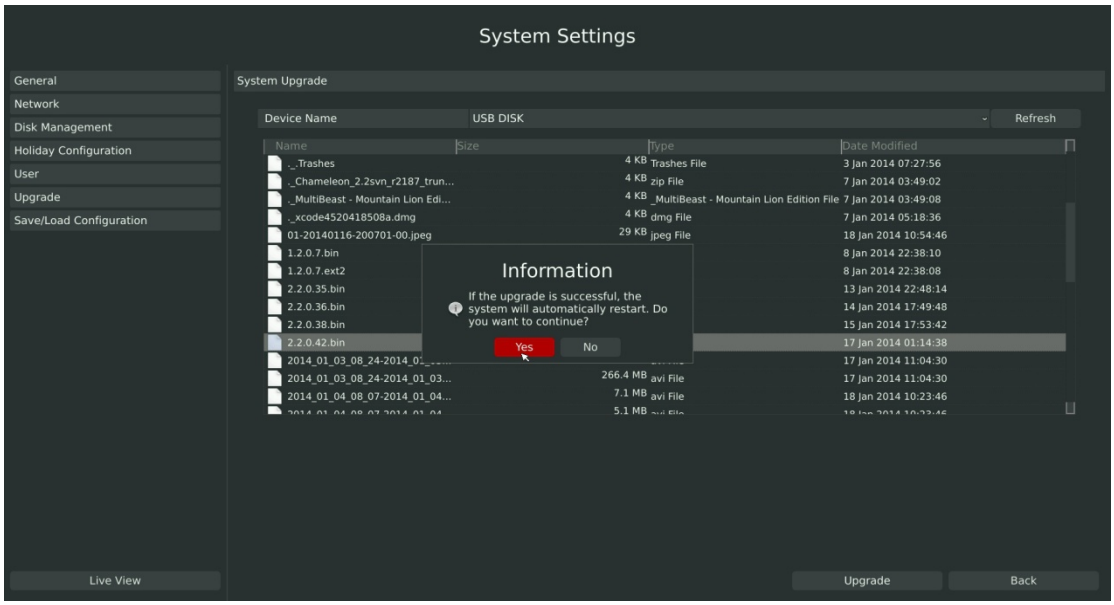
F-3.8.16

Step2. Search for device, and select the .bin file



F-3.8.17

Step3. Click [Upgrade] button to confirm the upgrade



F-3.8.18

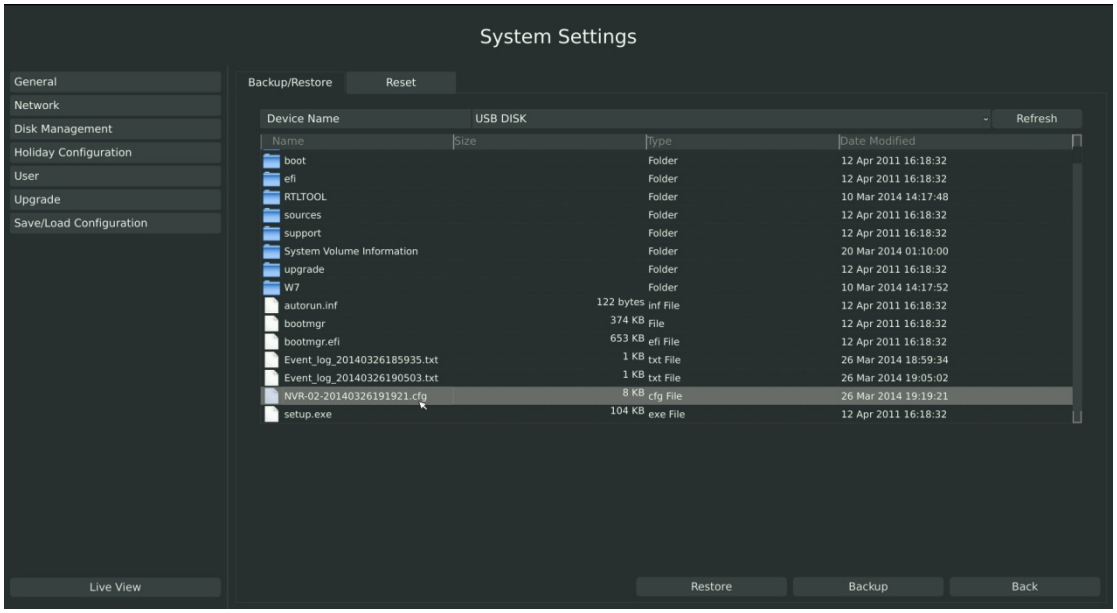
Note: The system will auto reboot after confirming upgrade.

3.8.7 Save/Load Configuration

3.8.7.1 Backup/Restore

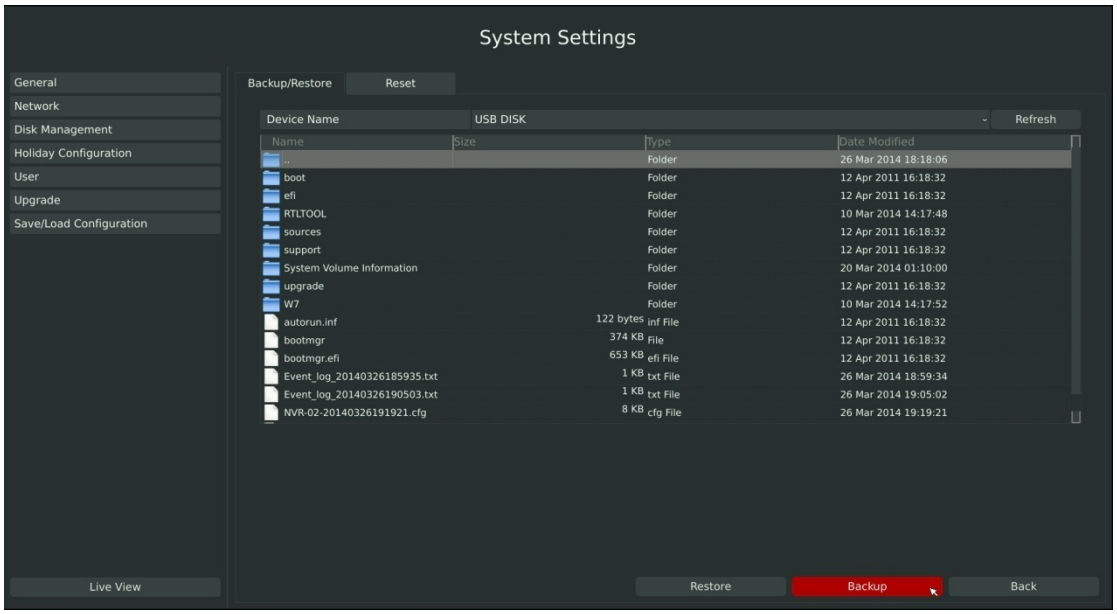
Your NVR supports import and export configuration profiles.

- **Step1: Enter profile menu by clicking Main Menu à System Settings à Save/Load Backup/Restore**

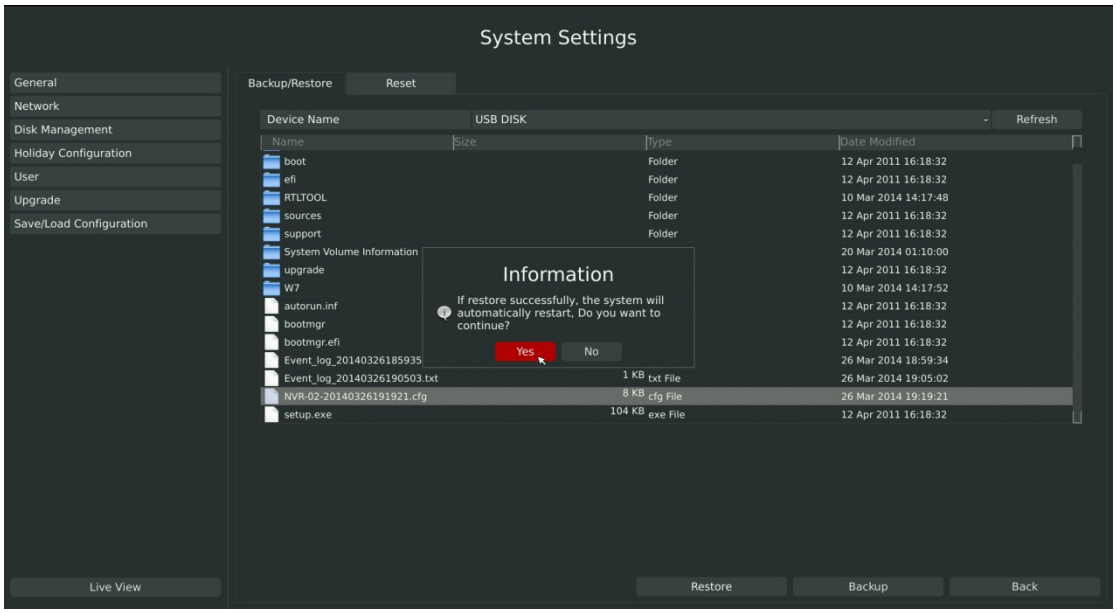


F-3.8.19

Step2. Select a file and then click [Backup] to export configuration files to USB device.



Step3. Select a configuration file fı F-3.8.20 **:e and click [Restore] to restore the configuration.**

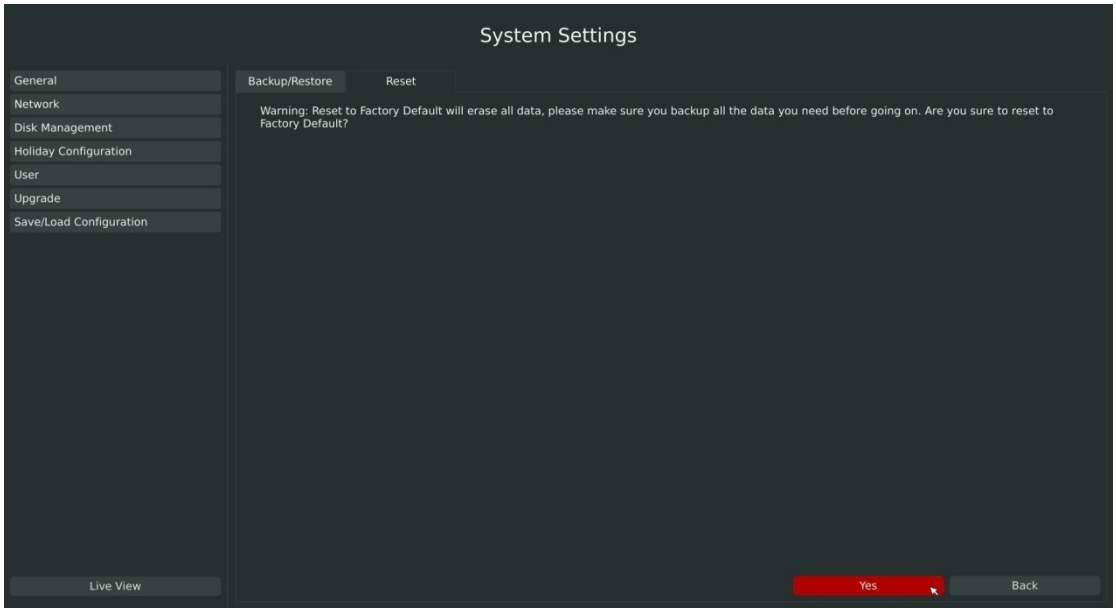


F-3.8.21

3.8.7.2 Reset

You can reset all parameters to default settings.

Step: Enter to reset menu by clicking Main Menu à System Settings à Save/Load à Reset



F-3.8.22

3.9 Shutdown

F-3.8.23

3.9.1 Logout

Click [Logout] to exit the current logon account.

3.9.2 Reboot

Click [Reboot] to restart the NVR.

3.9.3 Shutdown

Click [Shutdown] to close the NVR.

3.9.4 Close

Click [Close] to exit.